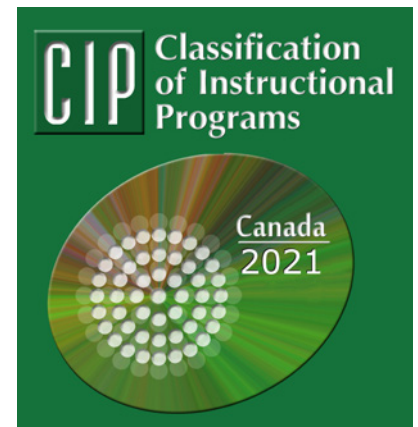


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Classification of Instructional Programs (CIP) Canada 2021 Version 1.0



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Preface

The Classification of Instructional Programs (CIP) Canada 2021 is the fourth Canadian version of the CIP. The CIP Canada 2021 revision was accomplished through the joint efforts of Statistics Canada and the National Center for Education Statistics (NCES) of the United States Department of Education. NCES is the primary entity in the United States for collecting, analysing, and reporting data related to education.

This revision is based on research and consultation conducted separately by Statistics Canada and NCES in their respective countries. The information thus gathered informed the joint decision-making process during which Statistics Canada and NCES agreed on the revisions to be adopted for the common structure, as well as on various additional classes for distinctly Canadian content. Comparability between educational data from the two countries was thus maintained, while continuing to address Canada's distinct needs and circumstances. CIP 2020 and CIP Canada 2021 are respectively the American and Canadian versions of the same CIP revision.

The collaborative relationship between Statistics Canada and NCES, as well as the significant contribution of CIP users who provided input through the consultation process, have made the development of this revised classification possible.

Acknowledgements

This CIP 2021 revision was accomplished through the time, effort, and co-operation of numerous people in Canada and the United States.

In Canada, CIP 2021 was revised and published by Statistics Canada. The revision was developed by Sandra Mialkowski of the Centre for Statistical and Data Standards (CSDS), working closely with Jennifer Flack of the Canadian Centre for Education Statistics (CCES), and supported by Milena Lopez of CCES and Lauren Gomes of CSDS.

Introduction

Purpose of CIP

The Classification of Instructional Programs (CIP) Canada is a classification of instructional programs used to classify postsecondary educational programs according to field of study. It is Statistics Canada's official standard for the organizing, collection, processing, dissemination, and analysis of field of study statistics in its education statistics programs.

Background

The Classification of Instructional Programs (CIP) was developed in 1980 by the National Center for Education Statistics (NCES) in the United States. NCES released updates in 1985, 1990, 2000, 2010 and 2020. CIP Canada 2021 is the fourth Canadian version of this classification; the others being CIP Canada 2000, 2011 and 2016.

CIP is designed to classify 'instructional programs', which are defined as:

A combination of courses and experiences that is designed to accomplish a predetermined objective or set of allied objectives such as preparation for advanced study, qualification for an occupation or range of occupations or simply the increase of knowledge and understanding (Chismore and Hill, *A Classification of Educational Subject Matter*, 1978, NCES, p. 165).

Although CIP was specifically designed for the classification of instructional programs, it has been used to classify instructional courses as well. CIP can also be used to classify and understand other units. For example, CIP could be used to classify institutions by programs offered, students and graduates by programs studied, or faculty by programs taught.

The organizing principle behind CIP is 'field of study'. At Statistics Canada, a field of study is defined as a "discipline or area of learning or training associated with a particular course or program of study." (Statistics Canada. (2021). [Field of study of person](#)).

Prior to adopting CIP, Statistics Canada had several field of study classifications. CIP was chosen to replace them because it was a detailed and proven classification with a 20-year history, was up to date, had an established mechanism for updates and a track record of regular updates, and a proper hierarchical coding structure. As an added advantage, it provides comparability with the United States. CIP has been Statistics Canada's standard for classifying field of study since 2005.

The classification structure and coding system

Classification levels

CIP Canada 2021 is a three-level hierarchical arrangement of classification items or categories with successive levels of disaggregation.

1. The first level is made up of 'series', which are identified using two-digit codes. The series are the most general groupings of related programs. CIP Canada 2021 contains 50 series.
2. The second level is made up of 'subseries', which are identified using four-digit codes. The subseries provides an intermediate grouping of programs that have comparable content and objectives. CIP Canada 2021 contains 454 subseries.
3. The third level is made up of 'instructional program classes', which are identified using six-digit codes. Instructional program classes represent the specific instructional programs and are the most detailed level within CIP. They are the basic unit of analysis used in reporting instructional programs. CIP Canada 2021 contains 2119 instructional program classes.

Coding system

CIP Canada 2021 has a numeric coding system.

1. The code format at the series level consists of a two-digit code followed by a period. For example, 01.
2. The code format at the subseries level consists of the two-digit series code, followed by a period, then by a further two digits. There is at least one subseries within each series. For example, 01.01
3. The code format at the instructional program class (class) level consists of the four-digit subseries code, followed by a further two digits. There is at least one class within each subseries. For example, 01.0102.

Occasional gaps may occur in the numerical sequence of categories. They result either from deletions of categories that appeared in previous editions of CIP or from moves of categories to new locations in the classification.

Within each series, subseries are listed in numerical order.

Within each subseries, instructional program classes are listed in numerical order. Classes with a general focus are listed first. Residual classes are listed last and include instructional programs that belong in the subseries but are not covered in a specific instructional program class. For example, within subseries 01.01, Agricultural business and management, class 01.0101 Agricultural business and management, general, appears first and class 01.0199 Agricultural business and management, other, appears last.

Titles

Titles are generally one word or phrase, such as 'Psychology' or 'Civil engineering', that conveys the most commonly used or accepted name describing a program.

Use of the slash (/) in titles

In some cases, more than one title may be used for the same instructional program. To reflect this, the title of the corresponding category uses words or phrases separated by slashes. This is done in the following situations:

- two or more commonly accepted names exist for the same program, or
- the same program has different names at different educational levels, or

- the program has undergone a recent name change but many institutions still use the older name for the program.

For example:

- series 30. Multidisciplinary/interdisciplinary studies, includes multidisciplinary and interdisciplinary programs
- subseries 26.07 Zoology/animal biology, includes programs that focus on the study of zoology and/or animal biology
- class 12.0510 Wine steward/sommelier, includes programs that prepare individuals to become wine stewards and/or sommeliers.

Descriptions

- The series descriptions broadly identify the objectives and content of the two-digit series.
- The subseries descriptions identify the six-digit classes included in the four-digit subseries.
- The instructional program class descriptions identify the objectives and content of the six-digit classes.

Program descriptions using the phrase “any program that focuses on” describes academic and general programs. Program descriptions using phrases such as “program that prepares individuals to” or “program that generally prepares individuals to” describe programs designed to prepare individuals for specific occupations.

Class descriptions are intended to be general categories, not exact duplicates of majors or programs offered at individual postsecondary educational institutions. In most cases, classes may be used for postsecondary educational programs at various levels and are not intended to correspond exclusively to a specific credential.

Example descriptions

| Level | Code | Title | Description |
|-----------|---------|--|---|
| Series | 01. | Agricultural and veterinary sciences/ services/operations and related fields | This series comprises instructional programs that focus on agriculture, animal, plant, veterinary and related sciences and that prepare individuals to apply specific knowledge, methods, and techniques to the management and performance of agricultural and veterinary operations. |
| Subseries | 01.01 | Agricultural business and management | This subseries comprises instructional program classes 01.0101 to 01.0199. |
| Class | 01.0102 | Agribusiness/agricultural business operations | This instructional program class comprises any program that prepares individuals to manage agricultural businesses and agriculturally related operations within diversified corporations. These programs include courses in agriculture, agricultural specialization, business management, accounting, finance, marketing, planning, human resources management, and other managerial responsibilities. |

Illustrative examples

Illustrative examples accompany the CIP Canada 2021 instructional program classes and appear under the heading “Illustrative example(s)”. When a class has more than ten illustrative examples a list of all the illustrative examples for the class can be found by clicking the “All examples” link when using the CIP HTML format on the Statistics Canada web site, or in the alphabetical index when using the CIP PDF format.

Some of the examples are based on program names provided in response to the Census of Population of Canada and reflect the way respondents typically describe programs, and some are based on the program titles used at Canadian postsecondary educational institutions.

The examples are intended to illustrate the contents and scope of the instructional program class. The list of illustrative examples is not meant to be exhaustive.

Inclusions

Inclusions are borderline examples where it might not be clear from reading both the class title and description that the example belongs in the class. They appear under the heading “Inclusion(s)”.

CIP Canada 2021 has only four inclusions:

- victimology, in 45.0401
- art restoration, in 50.0703
- fundraising, in 52.0206
- fundraising management, in 52.0206

Exclusions

Many instructional program classes also have exclusions. Exclusions clarify the boundaries of the instructional program class by identifying related instructional program classes and similar programs that are classified elsewhere. They appear under the heading “Exclusion(s)”.

The instructional programs cited in the Exclusions were selected from among the examples of related instructional program classes.

The list of exclusions is not meant to be exhaustive.

CIP Canada 2021 revision methodology

Background research

To determine the need for new CIP instructional program classes for CIP 2021, the first phase of background research was guided by analyzing data for graduates from the Postsecondary Student Information System (PSIS). Using the five most recent years of PSIS data, all programs of study coded to residual codes (ending in ‘99’, or ‘9999’) were reviewed and compared against existing CIP classes to determine if a mapping could be found. Programs of study which did not clearly map into an existing CIP class were identified as possible additions to the new 2021 version of CIP.

The second phase of background research was conducted by analyzing write-in responses to the 2016 Census for the question on major field of study. The Census write-ins on major field of study are a rich data source for the development of the classification. Each of the write-in suggestions was mapped against the 2016 CIP, and high frequency write-ins which did not map into an existing CIP class were identified as possible additions to the new 2021 version of CIP.

The third phase of background research was to conduct internet research through a scan of postsecondary educational institution web sites for each of the potential additions that had been identified. After reviewing the results, the CIP Revision Working Group decided on a list of new classes to include for bilateral discussion at the CIP Technical Review Panel (TRP) in Washington, DC.

Bilateral development

Statistics Canada and the National Center for Education Statistics (NCES) in the United States worked jointly on this revision of CIP from the TRP forward. Separate consultations with users of the classification in the two countries had identified areas where updates were required to clarify class boundaries, update information, or include new programs. Agreement was reached between the two countries on all revisions at the TRP: on new classes, on the placement of specific examples and on the restructuring of some series. All new and revised class descriptions were developed jointly, except those for classes appearing only in CIP Canada. This collaboration

allowed the two national versions of CIP to be revised in a way that maintains the high degree of commonality between them and continues to permit close comparability between Canadian and U.S. educational data and to facilitate a common approach to future classification revisions.

Canadian version development

With the revised structure agreed to, Statistics Canada then proceeded to fully develop CIP Canada by researching appropriate examples and exclusions for all new and revised instructional program classes, ensuring new class descriptions reflected Canadian terminology and adding the classes that had been agreed would be specific to CIP Canada.

Even where no current Canadian programs are known to exist for new NCES-proposed CIP classes, these classes were included in CIP Canada 2021. This was done to support the coding of responses received by social surveys and the Census which ask respondents to report the field of study of their highest certificate, degree, or diploma. As this qualification may have been obtained outside of Canada, retaining all CIP classes is necessary to support coding.

Summary of changes from CIP 2016 Version 1.0 to CIP 2021 Version 1.0

In CIP Canada 2021 Version 1.0, the [Generic Statistical Information Model \(GSIM\)](#) is used to identify the types of changes made to the classification. In GSIM:

- **Real Changes** - are those affecting the scope of the existing classification items or categories, whether or not accompanied by changes in the title, description and/or the coding
- **Virtual Changes** - are those made in coding, titles and/or descriptions, while the meaning or scope of the classification item remains the same

The “real changes” are the most important ones for analysis.

Changes can occur at all levels of the classification. A complete list of all changes at all levels between CIP 2016 and CIP 2021 is released as a separate correspondence table and made available on Statistics Canada’s website, and can also be obtained upon request.

Creation of new classification items or categories

One new series has been added. All new and existing residency and fellowship programs for physicians have been moved to a new series 61:

- 61. Medical residency/fellowship programs

A total of 73 new subseries have been added to incorporate additional instructional programs and to restructure certain series and subseries, including:

- 16.18 Armenian languages, literatures, and linguistics
- 30.52 Digital humanities and textual studies
- 43.04 Security science and technology

A total of 438 new instructional program classes have been added to incorporate the new programs and specializations now being offered in postsecondary educational institutions, including:

- 01.0610 Urban and community horticulture
- 11.0902 Cloud computing
- 45.0205 Forensic anthropology

New Canada-only classes

Among the new classes are ten new six-digit classes for Canadian-only programs, which are found only in CIP Canada:

| Code | Class |
|-------------|---|
| 01.0480 | Cannabis product processing and inspection ^{CAN} |
| 01.0680 | Cannabis production operations and management ^{CAN} |
| 01.1180 | Cannabis product development and plant breeding ^{CAN} |
| 12.0580 | Cannabis edibles ^{CAN} |
| 44.0580 | Cannabis-related public policy analysis ^{CAN} |
| 51.1580 | Cannabis abuse/cannabis addiction counselling ^{CAN} |
| 51.2280 | Cannabis-related public health ^{CAN} |
| 51.9980 | Cannabis-related health professions and clinical sciences, other ^{CAN} |
| 52.1880 | Cannabis-related selling skills and sales operations ^{CAN} |
| 52.1980 | Cannabis-related marketing and marketing operations ^{CAN} |

Transfer / Restructuring

Three series were restructured:

- 01. Agricultural and veterinary sciences/services/operations and related fields
- 51. Health professions and related programs
- 60. Health professions residency/fellowship programs

To bring CIP 2021 in line with the International Standard Classification of Education (ISCED) and international coding practice, veterinary medicine, science, technology and veterinary-related services and support were transferred from series 51. Health professions and related programs, to series 01. Agricultural and veterinary sciences/services/operations and related fields.

Physician residency and fellowship programs were transferred from series 60. Health professions residency/fellowship programs, to a new series of their own, series 61. Medical residency/fellowship programs. And the new nurse practitioner, pharmacy, and physician assistant residency and fellowship programs have been added in series 60. Health professions residency/fellowship programs.

Changes to titles and descriptions

The titles and the descriptions of several classes were changed for clarity, accuracy or to reflect terminology changes. For a complete list of title and description changes, see the correspondence table which is released as a separate document on Statistics Canada's website, and can also be obtained upon request.

Additions and changes to examples

Over 5,000 new examples were added to CIP 2021, based on research of new and emerging instructional programs and suggestions from subject matter experts, and the existing illustrative examples were reviewed for usefulness and accuracy. The new additions and review included both English and French examples, and care was taken to ensure that all content illustrated by the examples in one language was also conveyed by the examples in the other language. The examples used are illustrative of possible survey responses and actual program names and are not an exhaustive list of examples.

Changes in CIP Canada 2021 Version 1.0 relative to CIP Canada 2016 Version 1.0

Net count of classification items by level

| Level | CIP Canada 2021 Version 1.0 | CIP Canada 2016 Version 1.0 | Added | Eliminated | Net difference |
|-------------------|--------------------------------|--------------------------------|------------|------------|----------------|
| 2-digit series | 50 | 49 | 1 | 0 | + 1 |
| 4-digit subseries | 454 | 387 | 73 | 6 | + 67 |
| 6-digit classes | 2,119 | 1,689 | 438 | 8 | + 430 |
| Total | 2,623 | 2,125 | 512 | 14 | + 498 |

Variants of CIP

CIP Canada 2021 contains the standard classification structure and three standard variants of that structure. The standard classification is intended for broad use, whereas each variant is designed to meet a specific user need. Variants are released as separate documents on Statistics Canada's website, and can also be obtained upon request.

The three variants of CIP Canada 2021 are all regrouping variants. Regrouping variants reorganize the categories of the standard classification in a different, subject-specific way. The variants are not meant to replace the standard classification, but rather to complement it by enhancing the analytical usefulness of the classification by changing its organization (regrouping).

Variant of CIP Canada 2021 Version 1.0 - Primary groupings

The [Variant of the Classification of Instructional Programs \(CIP\) Canada 2021 Version 1.0 for Primary groupings](#) is used for the presentation, summary, analysis, and dissemination of highly aggregated data, and is an update of the Variant of CIP 2016 - Primary groupings.

The primary groupings variant is comprised of 13 'primary groupings' at the first level, and each primary grouping is made up of one or more of the 50 two-digit series.

The second level is comprised of the 50 CIP 2021 series. Each series belongs in only one primary grouping, except for series 30. Multidisciplinary/interdisciplinary studies. Series 30. has been split into its constituent four-digit subseries, and each of the subseries has been grouped with its closest equivalent series by field of study.

The primary groupings are based on field of study and are independent of the level of postsecondary education at which they were taken. The two secondary education level series in CIP are the exception. These two series, 21. Pre-technology education/pre-industrial arts programs^{CAN}, and 53. High school/secondary diploma and certificate programs, are included in the "Other" primary grouping category.

Variant of CIP Canada 2021 Version 1.0 - Alternative primary groupings

The [Variant of the Classification of Instructional Programs \(CIP\) Canada 2021 Version 1.0 for Alternative primary groupings](#) is used for the presentation, summary, analysis, and dissemination of highly aggregated data when the Primary groupings variant is too detailed at the second level for smaller geographic areas and is an update of the Variant of CIP 2016 – Alternative primary groupings.

The variant has the same 13 'primary groupings' as the Primary groupings variant at the first level which are a convenient and useful basis for summarizing and analyzing more detailed classes.

The second level is comprised of the 50 CIP 2021 series. Each series belongs in only one primary grouping, except for series 30. Multidisciplinary/interdisciplinary studies. Series 30. has been split into its constituent four-digit subseries, and each of the subseries has been grouped with its closest equivalent series by field of study.

In order to facilitate the dissemination of information at smaller geographies, the variant collapses the 100 subgroupings of the Primary groupings variant at the second level into 59 subgroupings. Each of the collapsed categories at the second level in the Alternative primary groupings variant has an explanatory footnote stating which of the CIP 2021 series 30. Multidisciplinary/interdisciplinary subseries it includes.

Variant of CIP Canada 2021 Version 1.0 - Science, technology, engineering and mathematics (STEM) and Business, humanities, health, arts, social science and education (BHASE) groupings

The [Variant of the Classification of Instructional Programs \(CIP\) Canada 2021 Version 1.0 for Science, technology, engineering and mathematics \(STEM\) and Business, humanities, health, arts, social science and education \(BHASE\) groupings](#) is used for the analysis, comparison, presentation, summary, and dissemination of STEM and BHASE data, and to compare education and labour market outcomes between STEM and BHASE fields of study. The variant is an update of the Variant of CIP 2016 – STEM and BHASE groupings.

The groupings in the variant are based on field of study and are independent of level of study.

The first level of the variant consists of two groupings, STEM and BHASE fields of study. At the second level, the STEM grouping is disaggregated into 3 sub-groupings, and the BHASE grouping is disaggregated into 7 sub-groupings. At the third level, the STEM grouping is further broken out into 7 categories, and the BHASE grouping is further broken out into 21 categories. The fourth level of the variant consists of the CIP 2021 instructional program classes.

Changes for 2021:

- The acronym in the French title for this variant was changed from “Science, technologie, génie et mathématiques (STGM)” to “Science, technologie, ingénierie et mathématiques (STIM)” to bring it in line with current standards of practice
- The BHASE sub-grouping b.3 Social and behavioural sciences, was subdivided into four categories to improve analysis.

Relationship between CIP and ISCED-F 2013

The International Standard Classification of Education (ISCED) is the classification used for organizing education programmes and related qualifications by level and field of education within the United Nations International Family of Economic and Social Classifications.

CIP is comparable to the International Standard Classification of Education - Fields of Education and Training (ISCED-F) 2013, the classification from the ISCED family of classifications that is used to classify educational programs and related qualifications according to field of study.

ISCED-F 2013 has a hierarchy of 3 levels. The top level is comprised of 11 broad fields, which are divided into 29 narrow fields at the middle level, and which are further subdivided into about 80 detailed fields at the lowest level.

Correspondence tables showing the CIP to ISCED-F relationship between CIP 2016 and ISCED-F 2013 and between CIP 2021 V1.0 and ISCED-F 2013 are released as separate documents on Statistics Canada’s website, and can also be obtained upon request.

Assigning CIP codes to instructional programs

To ensure consistency at the national level, Statistics Canada codes instructional program data submitted from household survey responses and from educational institution administrative data files. This coding is done with the help of software that has been developed to provide a combination of auto-coding and computer-assisted manual coding. The basic approach to CIP coding is described below for institutions or organizations that do their own coding.

The main coding tool is the classification manual available in HTML, CSV and PDF formats.

In addition to the manual, those who are coding instructional programs using CIP should have enough information about the program to be able to code accurately, including:

- program title
- program description
- type of institution
- duration of study
- nature of the academic award.

With this information, the coding of a single-discipline instructional program is relatively straightforward. The coder selects all likely series and from among those chooses the most applicable. The process is then repeated at the subseries level, and again at the instructional program class level. This top-down process is facilitated by referring to the illustrative examples and exclusions in the manual. An electronic search of the illustrative examples can also be done.

Several examples are presented to show the coding process.

Suppose the coder has the following information:

- program title: Hair styling
- program description: Combining hands-on training and theory, the Hairstyling program prepares you for a career as a licensed professional hairstylist
- type of institution: college
- duration of study: two years
- academic award: college diploma

The coder first tries to identify the appropriate two-digit series. In this case, from the title and description, series 12. Personal and culinary services is likely the best series to look in for a match. Within series 12., subseries 12.04 Cosmetology and related personal grooming services, gets us closer to the sort of program we are looking for. Within 12.04, the program is coded to instructional program class 12.0407 Hair styling/stylist and hair design. By referring to the description and illustrative examples, the coder can see that “hairstyling” is part of this class. The institution type and duration of study were not used.

In a second case, the coder has the following information:

- program title: Mathematics Teacher Education
- program description: This integrated program provides students with the learning opportunities needed to become proficient Mathematics teachers and consists of courses in Education (including field experiences) and courses in the subject area of the teaching specialization
- type of institution: university
- duration of study: three years
- academic award: Bachelor of Education (BEd)

The coder first tries to identify the appropriate two-digit series based on the program title and description, in this case, series 13. Education. Within series 13, subseries 13.13 Teacher education and professional development, specific subject areas, is the most applicable. Within subseries 13.13, instructional program class 13.1311 Mathematics teacher education, is selected. By referring to the description and illustrative examples, the coder will find that “mathematics teacher education” is part of this class.

In a third case, the coder has the following information:

- program title: LL.M. in Taxation
- program description: The LL.M. in Taxation will provide graduates with a depth of knowledge and level of technical expertise in tax law beyond that which can be acquired in a basic law degree or other relevant disciplines
- type of institution: university
- duration of study: one year
- academic award: Master of Laws (LLM)

The coder first tries to identify the appropriate two-digit series based on the program title and description. In this case, series 22. Legal professions and studies, is the clear choice. As this is a master’s degree it belongs in subseries 22.02 Legal research and advanced professional studies (Post-LLB/JD), which can only be used for law degrees and legal research above the bachelor’s degree level. Within subseries 22.02, instructional program class 22.0211 Tax law/taxation (LLM, LLD, JSD/SJD) is selected. By referring to the description and illustrative examples, the coder can confirm that “tax law (graduate level)” is part of this class.

In a fourth case, the coder has the following information:

- program title: Pre-Service Firefighter Education and Training

- program description: the Pre-Service Firefighter Education and Training program will help prepare you for a career as a firefighter with highly realistic firefighting, rescue and emergency care training. Graduates of the program are eligible to write the firefighter certification exams.
- type of institution: college
- duration of study: one year
- academic award: college certificate

The coder first tries to identify the appropriate two-digit series based on the program title and description. In this case, series 43. Security and protective services. Within series 43, subseries 43.02 Fire protection, is the most applicable. Within subseries 43.02, instructional program class 43.0203 Fire science/firefighting, is selected. By referring to the description and illustrative examples, the coder will find that “preservice firefighter” is part of this class.

Coding of combined majors and multidisciplinary/interdisciplinary programs

The coding of instructional programs which combine content from two or more disciplines, referred to as combined majors (also ‘double majors’ or ‘joint majors’), and as multidisciplinary or interdisciplinary programs, follows the same top-down approach. Using the same method described for single-discipline programs, the coder tries to find an instructional program class that specifically covers the combined program. If such a class is found, the program can normally be coded directly to that class. When no specific class can be found, the program is coded to the appropriate residual class (code ending in ‘99’, or ‘9999’).

In general, a program that combines content from two or more two-digit series is coded to a class in series 30. Multidisciplinary/interdisciplinary studies, and a program that combines the content from two or more subcategories within one two-digit series can be coded to a class in that two-digit series. An electronic search of the illustrative examples can also be done.

The approach for coding combined majors and multidisciplinary programs is as follows:

1. When a specific class exists for a combined program with content from two different two-digit series, code to the appropriate specific class in series 30:
 - “Computer science and mathematics” combines content from 11.0701 Computer science and 27.0101 Mathematics, general, and should be coded to 30.0801 Mathematics and computer science, the appropriate specific class in series 30. Multidisciplinary/interdisciplinary studies
2. When a specific class does not exist for a combined program with content from two different two-digit series, code to 30.9999 Multidisciplinary/interdisciplinary studies, other, the residual class in series 30:
 - “Computer science and music” combines content from 11.0701 Computer science and 50.0901 Music, general, and should be coded to 30.9999 Multidisciplinary/interdisciplinary studies, other, the residual class in series 30. Multidisciplinary/interdisciplinary studies
3. When a specific class exists for a combined program with content from two different four-digit subseries of the same two-digit series, code to the appropriate specific class for that combination:
 - “Political science and economics” combines content from 45.1001 Political science and government, general and 45.0601 Economics, general, and should be coded to 45.1004 Political economy, the appropriate specific class in series 45. Social sciences
4. When a specific class does not exist for a combined program with content from two different four-digit subseries of the same two-digit series, code to the residual class for that series (code ending in ‘9999’):
 - “Mass communication and journalism” combines content from 09.0102 Mass communication/media studies and 09.0401 Journalism, general, and should be coded to 09.9999 Communication, journalism and related programs, other, the residual class in series 09. Communication, journalism and related programs
5. When a specific class exists for a combined program with content from two different six-digit classes of the same four-digit subseries, code to the appropriate specific class for that combination:

- “Pharmacology and toxicology” combines content from 26.1001 Pharmacology and 26.1004 Toxicology, and should be coded to 26.1007 Pharmacology and toxicology, integrated, the appropriate specific class in subseries 26.10 Pharmacology and toxicology
6. When a specific class does not exist for a combined program with content from two different six-digit classes of the same four-digit series, code to the residual class for that subseries (code ending in ‘99’):
- “Hotel and casino management” combines content from 52.0904 Hotel/motel administration/management and 52.0908 Casino management, and should be coded to 52.0999 Hospitality administration/management, other, the residual class in subseries 52.09 Hospitality administration/management.

Coding of combined language majors

7. There is an exception regarding the use of 30.9999 Multidisciplinary/interdisciplinary studies, other, the residual class in series 30. to code programs that combine content from two or more two-digit series. 30.9999 is not used to code combined and double language majors and combined language programs which combine content from two or more of these two-digit series for languages:
- Series 16. Indigenous and foreign languages, literatures, and linguistics
 - Series 23. English language and literature/letters
 - Series 55. French language and literature/letters

For programs combining content from two or three of these two-digit series, the combined programs are coded to 16.9999, the residual instructional program class for series 16. Indigenous and foreign languages, literatures, and linguistics. For example:

- a. a combined French / English major is coded to 16.9999 Indigenous and foreign languages, literatures and linguistics, other
- b. a combined French / German major is coded to 16.9999 Indigenous and foreign languages, literatures and linguistics, other
- c. a combined English / Russian major is coded to 16.9999 Indigenous and foreign languages, literatures and linguistics, other

However, a major that combines French and another romance language from subseries 16.09 is coded to 16.0999, the residual class for subseries 16.09 Romance languages, literatures and linguistics, because they are both romance languages. For example:

- d. a combined French / Spanish major is coded to 16.0999 Romance languages, literatures and linguistics, other
- e. a combined French / Italian major is coded to 16.0999 Romance languages, literatures and linguistics, other
- f. a combined French / Portuguese major is coded to 16.0999 Romance languages, literatures and linguistics, other

Likewise, a major that combines two languages from the same four-digit subseries (same language family) is coded to the residual class for that subseries. For example:

- g. a combined Japanese / Korean major is coded to 16.0399 East Asian languages, literatures and linguistics, other
- h. a combined Norwegian / Swedish major is coded to 16.0599 Germanic languages, literatures and linguistics, other
- i. a combined Hindi / Urdu major is coded to 16.0799 South Asian languages, literatures and linguistics, other

And a major that combines two languages from two different four-digit subseries (different language families) is coded to 16.9999, the residual class for series 16. For example:

- j. a combined Bulgarian (16.0405) / Romanian (16.0906) major is coded to 16.9999 Indigenous and foreign languages, literatures and linguistics, other
- k. a combined Arabic (16.1101) / Persian (16.0801) major is coded to 16.9999 Indigenous and foreign languages, literatures and linguistics, other
- l. a combined Chinese (16.0301) / Vietnamese (16.1408) major is coded to 16.9999 Indigenous and foreign languages, literatures and linguistics, other

Revision cycle

CIP has a 10-year revision cycle. Revising a statistical classification involves a complete review of the conceptual basis of the classification as well as a review of user needs and available tools. Part of that review involves determining whether proposed changes would work better than the current practices and thus warrant a revised version of the classification.

Between revisions, updates can be made to incorporate illustrative examples for new instructional programs being offered.

Classification structure

01. Agricultural and veterinary sciences/services/operations and related fields

01.00 Agriculture, general

01.0000 Agriculture, general

01.01 Agricultural business and management

01.0101 Agricultural business and management, general

01.0102 Agribusiness/agricultural business operations

01.0103 Agricultural economics

01.0104 Farm/farm and ranch management

01.0105 Agricultural/farm supplies retailing and wholesaling

01.0106 Agricultural business technology/technician

01.0199 Agricultural business and management, other

01.02 Agricultural mechanization

01.0201 Agricultural mechanization, general

01.0204 Agricultural power machinery operation

01.0205 Agricultural mechanics and equipment/machine technology/technician

01.0207 Irrigation management technology/technician

01.0299 Agricultural mechanization, other

01.03 Agricultural production operations

01.0301 Agricultural production operations, general

01.0302 Animal/livestock husbandry and production

01.0303 Aquaculture

01.0304 Crop production

01.0306 Dairy husbandry and production

01.0307 Horse husbandry/equine science and management

01.0308 Agroecology and sustainable agriculture

01.0310 Apiculture

01.0399 Agricultural production operations, other

01.04 Agricultural and food products processing

01.0401 Agricultural and food products processing, general

01.0480 Cannabis product processing and inspection^{CAN}

01.0499 Agricultural and food products processing, other

01.05 Agricultural and domestic animal services

01.0504 Dog/pet/animal grooming

01.0505 Animal training

01.0507 Equestrian/equine studies

01.0508 Taxidermy/taxidermist

01.0509 Farrier science

01.0599 Agricultural and domestic animal services, other

01.06 Applied horticulture/horticultural business services

- 01.0601 Applied horticulture/horticulture operations, general
- 01.0603 Ornamental horticulture
- 01.0604 Greenhouse operations and management
- 01.0605 Landscaping and groundskeeping
- 01.0606 Plant nursery operations and management
- 01.0607 Turf and turfgrass management
- 01.0608 Floriculture/floristry operations and management
- 01.0609 Public horticulture
- 01.0610 Urban and community horticulture
- 01.0680 Cannabis production operations and management^{CAN}
- 01.0699 Applied horticulture/horticultural business services, other

01.07 International agriculture

- 01.0701 International agriculture

01.08 Agricultural public services

- 01.0801 Agricultural and extension education services
- 01.0802 Agricultural communication/journalism
- 01.0899 Agricultural public services, other

01.09 Animal sciences

- 01.0901 Animal sciences, general
- 01.0902 Agricultural animal breeding
- 01.0903 Animal health
- 01.0904 Animal nutrition
- 01.0905 Dairy science
- 01.0906 Livestock management
- 01.0907 Poultry science
- 01.0999 Animal sciences, other

01.10 Food science and technology

- 01.1001 Food science
- 01.1002 Food technology and processing
- 01.1003 Brewing science
- 01.1004 Viticulture and enology
- 01.1005 Zymology/fermentation science
- 01.1099 Food science and technology, other

01.11 Plant sciences

- 01.1101 Plant sciences, general
- 01.1102 Agronomy and crop science
- 01.1103 Horticultural science
- 01.1104 Agricultural and horticultural plant breeding
- 01.1105 Plant protection and integrated pest management

- 01.1106 Range science and management
- 01.1180 Cannabis product development and plant breeding^{CAN}
- 01.1199 Plant sciences, other

01.12 Soil sciences

- 01.1201 Soil science and agronomy, general
- 01.1202 Soil chemistry and physics
- 01.1203 Soil microbiology
- 01.1299 Soil sciences, other

01.13 Agriculture/veterinary preparatory programs

- 01.1302 Pre-veterinary studies
- 01.1399 Agriculture/veterinary preparatory programs, other

01.80 Veterinary medicine (DVM)

- 01.8001 Veterinary medicine (DVM)

01.81 Veterinary biomedical and clinical sciences (Cert., MS, MSc, PhD)

- 01.8101 Veterinary sciences/veterinary clinical sciences, general (Cert., MS, MSc, PhD)
- 01.8102 Comparative and laboratory animal medicine (Cert., MS, MSc, PhD)
- 01.8103 Large animal/food animal and equine surgery and medicine (Cert., MS, MSc, PhD)
- 01.8104 Small/companion animal surgery and medicine (Cert., MS, MSc, PhD)
- 01.8105 Veterinary anatomy (Cert., MS, MSc, PhD)
- 01.8106 Veterinary infectious diseases (Cert., MS, MSc, PhD)
- 01.8107 Veterinary microbiology and immunobiology (Cert., MS, MSc, PhD)
- 01.8108 Veterinary pathology and pathobiology (Cert., MS, MSc, PhD)
- 01.8109 Veterinary physiology (Cert., MS, MSc, PhD)
- 01.8110 Veterinary preventive medicine, epidemiology and public health (Cert., MS, MSc, PhD)
- 01.8111 Veterinary toxicology and pharmacology (Cert., MS, MSc, PhD)
- 01.8199 Veterinary biomedical and clinical sciences, other (Cert., MS, MSc, PhD)

01.82 Veterinary administrative services

- 01.8201 Veterinary administrative services, general
- 01.8202 Veterinary office management/administration
- 01.8203 Veterinary reception/receptionist
- 01.8204 Veterinary administrative/executive assistant and veterinary secretary
- 01.8299 Veterinary administrative services, other

01.83 Veterinary/animal health technologies/technicians

- 01.8301 Veterinary/animal health technology/technician and veterinary assistant
- 01.8399 Veterinary/animal health technologies/technicians, other

01.99 Agricultural and veterinary sciences/services/operations and related fields, other

- 01.9999 Agricultural and veterinary sciences/services/operations and related fields, other

03. Natural resources and conservation

03.01 Natural resources conservation and research

- 03.0101 Natural resources/conservation, general
- 03.0103 Environmental studies
- 03.0104 Environmental science
- 03.0199 Natural resources conservation and research, other

03.02 Environmental/natural resources management and policy

- 03.0201 Environmental/natural resources management and policy, general
- 03.0204 Environmental/natural resource economics
- 03.0205 Water, wetlands and marine resources management
- 03.0206 Land use planning and management/development
- 03.0207 Environmental/natural resource recreation and tourism
- 03.0208 Environmental/natural resources law enforcement and protective services
- 03.0209 Energy and environmental policy/environmental energy policy
- 03.0210 Bioenergy resource development and management
- 03.0299 Environmental/natural resources management and policy, other

03.03 Fishing and fisheries sciences and management

- 03.0301 Fishing and fisheries sciences and management

03.05 Forestry

- 03.0501 Forestry, general
- 03.0502 Forest sciences and biology
- 03.0506 Forest management/forest resources management
- 03.0508 Urban forestry
- 03.0509 Wood science and wood products/pulp and paper technology/technician
- 03.0510 Forest resources production and management
- 03.0511 Forest technology/technician
- 03.0599 Forestry, other

03.06 Wildlife and wildlands science and management

- 03.0601 Wildlife, fish and wildlands science and management

03.99 Natural resources and conservation, other

- 03.9999 Natural resources and conservation, other

04. Architecture and related services

04.02 Architecture

- 04.0200 Pre-architecture studies
- 04.0201 Architecture (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD)
- 04.0202 Advanced architectural design (MArch, MA, MS, MSc, DArch, PhD)
- 04.0299 Architecture, other

04.03 City/urban, community and regional planning

- 04.0301 City/urban, community and regional planning

04.04 Environmental design/architecture

- 04.0401 Environmental design/architecture, general
- 04.0402 Healthcare environment design/architecture

- 04.0403 Sustainable design/architecture
- 04.0499 Environmental design/architecture, other

04.05 Interior architecture

- 04.0501 Interior architecture

04.06 Landscape architecture (BS, BSc, BSLA, BLA, MSLA, MLA, PhD)

- 04.0601 Landscape architecture (BS, BSc, BSLA, BLA, MSLA, MLA, PhD)

04.08 Architectural history, criticism, and conservation

- 04.0801 Architectural history and criticism, general
- 04.0802 Architectural conservation
- 04.0803 Architectural studies
- 04.0899 Architectural history, criticism, and conservation, other

04.09 Architectural sciences and technology

- 04.0901 Architectural technology/technician
- 04.0902 Architectural and building sciences/technology (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD)
- 04.0999 Architectural sciences and technology, other

04.10 Real estate development

- 04.1001 Real estate development

04.99 Architecture and related services, other

- 04.9999 Architecture and related services, other

05. Area, ethnic, cultural, gender, and group studies

05.01 Area studies

- 05.0101 African studies
- 05.0102 American/United States studies/civilization
- 05.0103 Asian studies/civilization
- 05.0104 East Asian studies
- 05.0105 Russian, Central European, East European and Eurasian studies
- 05.0106 European studies/civilization
- 05.0107 Latin American studies
- 05.0108 Near and Middle Eastern studies
- 05.0109 Pacific/Australasian/Oceanian studies
- 05.0110 Russian studies
- 05.0111 Scandinavian studies
- 05.0112 South Asian studies
- 05.0113 Southeast Asian studies
- 05.0114 Western European studies
- 05.0115 Canadian studies
- 05.0116 Balkan studies
- 05.0117 Baltic studies
- 05.0118 Slavic studies

- 05.0119 Caribbean studies
- 05.0120 Ural-Altai and Central Asian studies
- 05.0121 Commonwealth studies
- 05.0122 Regional studies (U.S., Canadian, foreign)
- 05.0123 Chinese studies
- 05.0124 French studies
- 05.0125 German studies
- 05.0126 Italian studies
- 05.0127 Japanese studies
- 05.0128 Korean studies
- 05.0129 Polish studies
- 05.0130 Spanish and Iberian studies
- 05.0131 Tibetan studies
- 05.0132 Ukraine studies
- 05.0133 Irish studies
- 05.0134 Latin American and Caribbean studies
- 05.0135 Appalachian studies
- 05.0136 Arctic studies
- 05.0199 Area studies, other

05.02 Ethnic, cultural minority, gender, and group studies

- 05.0200 Ethnic studies
- 05.0201 African American/Black studies
- 05.0202 Indigenous peoples of the Americas studies
- 05.0203 Hispanic American, Puerto Rican and Mexican American/Chicano studies
- 05.0206 Asian American/Asian Canadian studies
- 05.0207 Women's studies
- 05.0208 Gay/lesbian studies
- 05.0209 Folklore studies
- 05.0210 Disability studies
- 05.0211 Deaf studies
- 05.0212 Comparative group studies
- 05.0299 Ethnic, cultural minority, gender, and group studies, other

05.99 Area, ethnic, cultural, gender, and group studies, other

- 05.9999 Area, ethnic, cultural, gender, and group studies, other

09. Communication, journalism and related programs

09.01 Communication and media studies

- 09.0100 Communication, general
- 09.0101 Speech communication and rhetoric
- 09.0102 Mass communication/media studies
- 09.0199 Communication and media studies, other

09.04 Journalism

- 09.0401 Journalism, general
- 09.0402 Broadcast journalism
- 09.0404 Photojournalism
- 09.0405 Business and economic journalism
- 09.0406 Cultural journalism
- 09.0407 Science/health/environmental journalism
- 09.0499 Journalism, other

09.07 Radio, television and digital communication

- 09.0701 Radio and television
- 09.0702 Digital communication and media/multimedia
- 09.0799 Radio, television and digital communication, other

09.09 Public relations, advertising and applied communication

- 09.0900 Public relations, advertising and applied communication, general
- 09.0901 Organizational communication, general
- 09.0902 Public relations/image management
- 09.0903 Advertising
- 09.0904 Political communication
- 09.0905 Health communication
- 09.0906 Sports communication
- 09.0907 International and intercultural communication
- 09.0908 Technical and scientific communication
- 09.0909 Communication management and strategic communications
- 09.0999 Public relations, advertising and applied communication, other

09.10 Publishing

- 09.1001 Publishing

09.99 Communication, journalism and related programs, other

- 09.9999 Communication, journalism and related programs, other

10. Communications technologies/technicians and support services**10.01 Communications technology/technician**

- 10.0105 Communications technology/technician

10.02 Audiovisual communications technologies/technicians

- 10.0201 Photographic and film/video technology/technician
- 10.0202 Radio and television broadcasting technology/technician
- 10.0203 Recording arts technology/technician
- 10.0204 Voice writing technology/technician
- 10.0299 Audiovisual communications technologies/technicians, other

10.03 Graphic communications

- 10.0301 Graphic communications, general
- 10.0302 Printing management

- 10.0303 Prepress/desktop publishing and digital imaging design
- 10.0304 Animation, interactive technology, video graphics and special effects
- 10.0305 Graphic and printing equipment operator, general production
- 10.0306 Platemaker/imager
- 10.0307 Printing press operator
- 10.0308 Computer typography and composition equipment operator
- 10.0399 Graphic communications, other

10.99 Communications technologies/technicians and support services, other

- 10.9999 Communications technologies/technicians and support services, other

11. Computer and information sciences and support services

11.01 Computer and information sciences and support services, general

- 11.0101 Computer and information sciences, general
- 11.0102 Artificial intelligence
- 11.0103 Information technology
- 11.0104 Informatics
- 11.0105 Human-centred technology design
- 11.0199 Computer and information sciences and support services, general, other

11.02 Computer programming

- 11.0201 Computer programming/programmer, general
- 11.0202 Computer programming, specific applications
- 11.0203 Computer programming, vendor/product certification
- 11.0204 Computer game programming
- 11.0205 Computer programming, specific platforms
- 11.0299 Computer programming, other

11.03 Data processing and data processing technology/technician

- 11.0301 Data processing and data processing technology/technician

11.04 Information science/studies

- 11.0401 Information science/studies

11.05 Computer systems analysis/analyst

- 11.0501 Computer systems analysis/analyst

11.06 Data entry/microcomputer applications

- 11.0601 Data entry/microcomputer applications, general
- 11.0602 Word processing
- 11.0699 Data entry/microcomputer applications, other

11.07 Computer science

- 11.0701 Computer science

11.08 Computer software and media applications

- 11.0801 Web page, digital/multimedia and information resources design
- 11.0802 Data modelling/warehousing and database administration
- 11.0803 Computer graphics

- 11.0804 Modelling, virtual environments and simulation
- 11.0899 Computer software and media applications, other

11.09 Computer systems networking and telecommunications

- 11.0901 Computer systems networking and telecommunications, general
- 11.0902 Cloud computing
- 11.0999 Computer systems networking and telecommunications, other

11.10 Computer/information technology administration and management

- 11.1001 Network and system administration/administrator
- 11.1002 System, networking and LAN/WAN management/manager
- 11.1003 Computer and information systems security/auditing/information assurance
- 11.1004 Web/multimedia management and webmaster
- 11.1005 Information technology project management
- 11.1006 Computer support specialist
- 11.1099 Computer/information technology administration and management, other

11.99 Computer and information sciences and support services, other

- 11.9999 Computer and information sciences and support services, other

12. Culinary, entertainment, and personal services

12.03 Funeral service and mortuary science

- 12.0301 Funeral service and mortuary science, general
- 12.0302 Funeral direction/service
- 12.0303 Mortuary science and embalming/embalmer
- 12.0399 Funeral service and mortuary science, other

12.04 Cosmetology and related personal grooming services

- 12.0401 Cosmetology/cosmetologist, general
- 12.0402 Barbering/barber
- 12.0404 Electrolysis/electrology and electrolysis technician
- 12.0406 Makeup artist/specialist
- 12.0407 Hair styling/stylist and hair design
- 12.0408 Facial treatment specialist/facialist
- 12.0409 Aesthetician/esthetician and skin care specialist
- 12.0410 Nail technician/specialist and manicurist
- 12.0411 Permanent cosmetics/makeup and tattooing
- 12.0412 Salon/beauty salon management/manager
- 12.0413 Cosmetology, barber/styling and nail instructor
- 12.0414 Master aesthetician/esthetician
- 12.0499 Cosmetology and related personal grooming services, other

12.05 Culinary arts and related services

- 12.0500 Cooking and related culinary arts, general
- 12.0501 Baking and pastry arts/baker/pastry chef
- 12.0502 Bartending/bartender

- 12.0503 Culinary arts/chef training
- 12.0504 Restaurant, culinary and catering management/manager
- 12.0505 Food preparation/professional cooking/kitchen assistant
- 12.0506 Meat cutting/meat cutter
- 12.0507 Food service, waiter/waitress and dining room management/manager
- 12.0508 Institutional food workers
- 12.0509 Culinary science
- 12.0510 Wine steward/sommelier
- 12.0580 Cannabis edibles^{CAN}
- 12.0599 Culinary arts and related services, other

12.06 Casino operations and services

- 12.0601 Casino operations and services, general
- 12.0602 Casino dealing
- 12.0699 Casino operations and services, other

12.99 Culinary, entertainment, and personal services, other

- 12.9999 Culinary, entertainment, and personal services, other

13. Education

13.01 Education, general

- 13.0101 Education, general

13.02 Bilingual, multilingual and multicultural education

- 13.0201 Bilingual and multilingual education
- 13.0202 Multicultural education
- 13.0203 Indigenous education
- 13.0299 Bilingual, multilingual and multicultural education, other

13.03 Curriculum and instruction

- 13.0301 Curriculum and instruction

13.04 Educational administration and supervision

- 13.0401 Educational leadership and administration, general
- 13.0402 Administration of special education
- 13.0403 Adult and continuing education administration
- 13.0404 Educational, instructional and curriculum supervision
- 13.0406 Higher education/higher education administration
- 13.0407 Community college and general and vocational college (CEGEP) administration
- 13.0408 Elementary and middle school administration/principalship
- 13.0409 Secondary school administration/principalship
- 13.0410 Urban education and leadership
- 13.0411 Superintendency and educational system administration
- 13.0412 International school administration/leadership
- 13.0413 Education entrepreneurship
- 13.0414 Early childhood program administration

13.0499 Educational administration and supervision, other

13.05 Educational/instructional media design

13.0501 Educational/instructional technology

13.06 Educational assessment, evaluation and research

13.0601 Educational evaluation and research

13.0603 Educational statistics and research methods

13.0604 Educational assessment, testing and measurement

13.0607 Learning sciences

13.0608 Institutional research

13.0699 Educational assessment, evaluation and research, other

13.07 International and comparative education

13.0701 International and comparative education

13.09 Social and philosophical foundations of education

13.0901 Social and philosophical foundations of education

13.10 Special education and teaching

13.1001 Special education and teaching, general

13.1003 Education/teaching of individuals with hearing impairments including deafness

13.1004 Education/teaching of the gifted and talented

13.1005 Education/teaching of individuals with emotional disturbances

13.1006 Education/teaching of individuals with intellectual disabilities

13.1007 Education/teaching of individuals with multiple disabilities

13.1008 Education/teaching of individuals with orthopedic and other physical health impairments

13.1009 Education/teaching of individuals with vision impairments including blindness

13.1011 Education/teaching of individuals with specific learning disabilities

13.1012 Education/teaching of individuals with speech or language impairments

13.1013 Education/teaching of individuals with autism

13.1014 Education/teaching of individuals who are developmentally delayed

13.1015 Education/teaching of individuals in early childhood special education programs

13.1016 Education/teaching of individuals with traumatic brain injuries

13.1017 Education/teaching of individuals in elementary special education programs

13.1018 Education/teaching of individuals in junior high/middle school special education programs

13.1019 Education/teaching of individuals in secondary special education programs

13.1099 Special education and teaching, other

13.11 Student counselling and personnel services

13.1101 Counsellor education/school counselling and guidance services

13.1102 College student counselling and personnel services

13.1199 Student counselling and personnel services, other

13.12 Teacher education and professional development, specific levels and methods

13.1201 Adult and continuing education and teaching

- 13.1202 Elementary education and teaching
- 13.1203 Junior high/intermediate/middle school education and teaching
- 13.1205 Secondary education and teaching
- 13.1206 Teacher education, multiple levels
- 13.1207 Montessori teacher education
- 13.1208 Waldorf/Steiner teacher education
- 13.1209 Kindergarten/preschool education and teaching
- 13.1210 Early childhood education and teaching
- 13.1211 Online educator/online teaching
- 13.1212 International Baccalaureate teaching and learning
- 13.1213 Science, technology, engineering, and mathematics (STEM) educational methods
- 13.1214 Postsecondary/college/university teaching
- 13.1299 Teacher education and professional development, specific levels and methods, other

13.13 Teacher education and professional development, specific subject areas

- 13.1301 Agricultural teacher education
- 13.1302 Art teacher education
- 13.1303 Business and innovation/entrepreneurship teacher education
- 13.1304 Driver and safety teacher education
- 13.1305 English/English language arts teacher education
- 13.1306 Indigenous and foreign language teacher education
- 13.1307 Health teacher education
- 13.1308 Family and consumer sciences/home economics teacher education
- 13.1309 Technology teacher education/industrial arts teacher education
- 13.1310 Sales and marketing operations/marketing and distribution teacher education
- 13.1311 Mathematics teacher education
- 13.1312 Music teacher education
- 13.1314 Physical education teaching and coaching
- 13.1315 Reading teacher education
- 13.1316 Science teacher education/general science teacher education
- 13.1317 Social science teacher education
- 13.1318 Social studies teacher education
- 13.1319 Technical teacher education
- 13.1320 Trade and industrial teacher education
- 13.1321 Computer teacher education
- 13.1322 Biology teacher education
- 13.1323 Chemistry teacher education
- 13.1324 Drama and dance teacher education
- 13.1325 French language/French language arts teacher education
- 13.1326 German language teacher education
- 13.1327 Health occupations teacher education
- 13.1328 History teacher education

- 13.1329 Physics teacher education
- 13.1330 Spanish language teacher education
- 13.1331 Speech teacher education
- 13.1332 Geography teacher education
- 13.1333 Latin teacher education
- 13.1334 School librarian/school library media specialist
- 13.1335 Psychology teacher education
- 13.1337 Earth science teacher education
- 13.1338 Environmental teacher education
- 13.1339 Communication arts and literature teacher education
- 13.1399 Teacher education and professional development, specific subject areas, other

13.14 Teaching English or French as a second or foreign language

- 13.1401 Teaching English as a second or foreign language/ESL language instructor
- 13.1402 Teaching French as a second or foreign language
- 13.1499 Teaching English or French as a second or foreign language, other

13.15 Teaching assistants/aides

- 13.1501 Teaching assistants/aides, general
- 13.1502 Adult literacy tutor/instructor
- 13.1599 Teaching assistants/aides, other

13.99 Education, other

- 13.9999 Education, other

14. Engineering

14.01 General engineering

- 14.0101 Engineering, general
- 14.0102 Pre-engineering
- 14.0103 Applied engineering

14.02 Aerospace, aeronautical and astronautical/space engineering

- 14.0201 Aerospace, aeronautical and astronautical/space engineering, general
- 14.0202 Astronautical engineering
- 14.0299 Aerospace, aeronautical, and astronautical/space engineering, other

14.03 Agricultural engineering

- 14.0301 Agricultural engineering

14.04 Architectural engineering

- 14.0401 Architectural engineering

14.05 Biomedical/medical engineering

- 14.0501 Biomedical/medical engineering

14.06 Ceramic sciences and engineering

- 14.0601 Ceramic sciences and engineering

14.07 Chemical engineering

- 14.0701 Chemical engineering

14.0702 Chemical and biomolecular engineering

14.0799 Chemical engineering, other

14.08 Civil engineering

14.0801 Civil engineering, general

14.0802 Geotechnical and geoenvironmental engineering

14.0803 Structural engineering

14.0804 Transportation and highway engineering

14.0805 Water resources engineering

14.0899 Civil engineering, other

14.09 Computer engineering

14.0901 Computer engineering, general

14.0902 Computer hardware engineering

14.0903 Computer software engineering

14.0999 Computer engineering, other

14.10 Electrical, electronics and communications engineering

14.1001 Electrical and electronics engineering

14.1003 Laser and optical engineering

14.1004 Telecommunications engineering

14.1099 Electrical, electronics and communications engineering, other

14.11 Engineering mechanics

14.1101 Engineering mechanics

14.12 Engineering physics/applied physics

14.1201 Engineering physics/applied physics

14.13 Engineering science

14.1301 Engineering science

14.14 Environmental/environmental health engineering

14.1401 Environmental/environmental health engineering

14.18 Materials engineering

14.1801 Materials engineering

14.19 Mechanical engineering

14.1901 Mechanical engineering

14.20 Metallurgical engineering

14.2001 Metallurgical engineering

14.21 Mining and mineral engineering

14.2101 Mining and mineral engineering

14.22 Naval architecture and marine engineering

14.2201 Naval architecture and marine engineering

14.23 Nuclear engineering

14.2301 Nuclear engineering

14.24 Ocean engineering

- 14.2401 Ocean engineering
- 14.25 Petroleum engineering**
 - 14.2501 Petroleum engineering
- 14.27 Systems engineering**
 - 14.2701 Systems engineering
- 14.28 Textile sciences and engineering**
 - 14.2801 Textile sciences and engineering
- 14.32 Polymer/plastics engineering**
 - 14.3201 Polymer/plastics engineering
- 14.33 Construction engineering**
 - 14.3301 Construction engineering
- 14.34 Forest engineering**
 - 14.3401 Forest engineering
- 14.35 Industrial engineering**
 - 14.3501 Industrial engineering
- 14.36 Manufacturing engineering**
 - 14.3601 Manufacturing engineering
- 14.37 Operations research**
 - 14.3701 Operations research
- 14.38 Surveying engineering**
 - 14.3801 Surveying engineering
- 14.39 Geological/geophysical engineering**
 - 14.3901 Geological/geophysical engineering
- 14.40 Paper science and engineering**
 - 14.4001 Paper science and engineering
- 14.41 Electromechanical engineering**
 - 14.4101 Electromechanical engineering
- 14.42 Mechatronics, robotics, and automation engineering**
 - 14.4201 Mechatronics, robotics, and automation engineering
- 14.43 Biochemical engineering**
 - 14.4301 Biochemical engineering
- 14.44 Engineering chemistry**
 - 14.4401 Engineering chemistry
- 14.45 Biological/biosystems engineering**
 - 14.4501 Biological/biosystems engineering
- 14.47 Electrical and computer engineering**
 - 14.4701 Electrical and computer engineering
- 14.48 Energy systems engineering**
 - 14.4801 Energy systems engineering, general

- 14.4802 Power plant engineering
- 14.4899 Energy systems engineering, other

14.99 Engineering, other

- 14.9999 Engineering, other

15. Engineering/engineering-related technologies/technicians

15.00 General engineering technologies/technicians

- 15.0000 Engineering technology/technician, general
- 15.0001 Applied engineering technology/technician, general

15.01 Architectural engineering technology/technician

- 15.0101 Architectural engineering technology/technician

15.02 Civil engineering technology/technician

- 15.0201 Civil engineering technology/technician

15.03 Electrical/electronic engineering technologies/technicians

- 15.0303 Electrical, electronic, and communications engineering technology/technician
- 15.0304 Laser and optical technology/technician
- 15.0305 Telecommunications technology/technician
- 15.0306 Integrated circuit design technology/technician
- 15.0307 Audio/sound engineering technology/technician
- 15.0399 Electrical/electronic engineering technologies/technicians, other

15.04 Electromechanical technologies/technicians

- 15.0401 Biomedical technology/technician
- 15.0403 Electromechanical/electromechanical engineering technology/technician
- 15.0404 Instrumentation technology/technician
- 15.0405 Robotics technology/technician
- 15.0406 Automation engineer technology/technician
- 15.0407 Mechatronics, robotics, and automation engineering technology/technician
- 15.0499 Electromechanical technologies/technicians, other

15.05 Environmental control technologies/technicians

- 15.0501 Heating, ventilation, air conditioning and refrigeration engineering technology/technician
- 15.0506 Water quality and wastewater treatment management and recycling technology/technician
- 15.0507 Environmental/environmental engineering technology/technician
- 15.0508 Hazardous materials management and waste technology/technician
- 15.0599 Environmental control technologies/technicians, other

15.06 Industrial production technologies/technicians

- 15.0607 Plastics and polymer engineering technology/technician
- 15.0611 Metallurgical technology/technician
- 15.0612 Industrial technology/technician
- 15.0613 Manufacturing engineering technology/technician
- 15.0614 Welding engineering technology/technician

- 15.0615 Chemical engineering technology/technician
- 15.0616 Semiconductor manufacturing technology/technician
- 15.0617 Composite materials technology/technician
- 15.0699 Industrial production technologies/technicians, other

15.07 Quality control and safety technologies/technicians

- 15.0701 Occupational safety and health technology/technician
- 15.0702 Quality control technology/technician
- 15.0703 Industrial safety technology/technician
- 15.0704 Hazardous materials information systems technology/technician
- 15.0705 Process safety technology/technician
- 15.0799 Quality control and safety technologies/technicians, other

15.08 Mechanical engineering related technologies/technicians

- 15.0801 Aeronautical/aerospace engineering technology/technician
- 15.0803 Automotive engineering technology/technician
- 15.0805 Mechanical/mechanical engineering technology/technician
- 15.0806 Marine engineering technology/technician
- 15.0807 Motorsports engineering technology/technician
- 15.0899 Mechanical engineering related technologies/technicians, other

15.09 Mining and petroleum technologies/technicians

- 15.0901 Mining technology/technician
- 15.0903 Petroleum technology/technician
- 15.0999 Mining and petroleum technologies/technicians, other

15.10 Construction engineering technology/technician

- 15.1001 Construction engineering technology/technician

15.11 Engineering-related technologies/technicians

- 15.1102 Surveying technology/surveying
- 15.1103 Hydraulics and fluid power technology/technician
- 15.1199 Engineering-related technologies/technicians, other

15.12 Computer engineering technologies/technicians

- 15.1201 Computer engineering technology/technician, general
- 15.1202 Computer/computer systems technology/technician
- 15.1203 Computer hardware technology/technician
- 15.1204 Computer software technology/technician
- 15.1299 Computer engineering technologies/technicians, other

15.13 Drafting/design engineering technologies/technicians

- 15.1301 Drafting and design technology/technician, general
- 15.1302 CAD/CADD drafting and/or design technology/technician
- 15.1303 Architectural drafting and architectural CAD/CADD
- 15.1304 Civil drafting and civil engineering CAD/CADD
- 15.1305 Electrical/electronics drafting and electrical/electronics CAD/CADD

- 15.1306 Mechanical drafting and mechanical drafting CAD/CADD
- 15.1307 3D modelling and design technology/technician
- 15.1399 Drafting/design engineering technologies/technicians, other

15.14 Nuclear engineering technology/technician

- 15.1401 Nuclear engineering technology/technician

15.15 Engineering-related fields

- 15.1501 Engineering/industrial management
- 15.1502 Engineering design
- 15.1503 Packaging science
- 15.1599 Engineering-related fields, other

15.16 Nanotechnology

- 15.1601 Nanotechnology

15.17 Energy systems technologies/technicians

- 15.1701 Energy systems technology/technician, general
- 15.1702 Power plant technology/technician
- 15.1703 Solar energy technology/technician
- 15.1704 Wind energy technology/technician
- 15.1705 Hydroelectric energy technology/technician
- 15.1706 Geothermal energy technology/technician
- 15.1799 Energy systems technologies/technicians, other

15.99 Engineering/engineering-related technologies/technicians, other

- 15.9999 Engineering/engineering-related technologies/technicians, other

16. Indigenous and foreign languages, literatures, and linguistics

16.01 Linguistic, comparative and related language studies and services

- 16.0101 Indigenous and foreign languages and literatures, general
- 16.0102 Linguistics
- 16.0103 Language interpretation and translation
- 16.0104 Comparative literature
- 16.0105 Applied linguistics
- 16.0199 Linguistic, comparative and related language studies and services, other

16.02 African languages, literatures and linguistics

- 16.0201 African languages, literatures and linguistics

16.03 East Asian languages, literatures and linguistics

- 16.0300 East Asian languages, literatures and linguistics, general
- 16.0301 Chinese language and literature
- 16.0302 Japanese language and literature
- 16.0303 Korean language and literature
- 16.0304 Tibetan language and literature
- 16.0399 East Asian languages, literatures and linguistics, other

16.04 Slavic, Baltic and Albanian languages, literatures and linguistics

- 16.0400 Slavic languages, literatures and linguistics, general
- 16.0401 Baltic languages, literatures and linguistics
- 16.0402 Russian language and literature
- 16.0404 Albanian language and literature
- 16.0405 Bulgarian language and literature
- 16.0406 Czech language and literature
- 16.0407 Polish language and literature
- 16.0408 Bosnian, Serbian, and Croatian languages and literatures
- 16.0409 Slovak language and literature
- 16.0410 Ukrainian language and literature
- 16.0499 Slavic, Baltic and Albanian languages, literatures and linguistics, other

16.05 Germanic languages, literatures and linguistics

- 16.0500 Germanic languages, literatures and linguistics, general
- 16.0501 German language and literature
- 16.0502 Scandinavian languages, literatures and linguistics
- 16.0503 Danish language and literature
- 16.0504 Dutch/Flemish language and literature
- 16.0505 Norwegian language and literature
- 16.0506 Swedish language and literature
- 16.0599 Germanic languages, literatures and linguistics, other

16.06 Modern Greek language and literature

- 16.0601 Modern Greek language and literature

16.07 South Asian languages, literatures and linguistics

- 16.0700 South Asian languages, literatures and linguistics, general
- 16.0701 Hindi language and literature
- 16.0702 Sanskrit and classical Indian languages, literatures and linguistics
- 16.0704 Bengali language and literature
- 16.0705 Punjabi language and literature
- 16.0706 Tamil language and literature
- 16.0707 Urdu language and literature
- 16.0799 South Asian languages, literatures and linguistics, other

16.08 Iranian languages, literatures and linguistics

- 16.0801 Iranian languages, literatures and linguistics

16.09 Romance languages, literatures and linguistics

- 16.0900 Romance languages, literatures and linguistics, general
- 16.0902 Italian language and literature
- 16.0904 Portuguese language and literature
- 16.0905 Spanish language and literature
- 16.0906 Romanian language and literature
- 16.0907 Catalan language and literature

16.0908 Hispanic and Latin American languages, literatures and linguistics, general

16.0999 Romance languages, literatures and linguistics, other

16.10 Indigenous languages, literatures, and linguistics of the Americas

16.1001 Indigenous languages, literatures, and linguistics of the Americas

16.11 Middle/Near Eastern and Semitic languages, literatures and linguistics

16.1100 Middle/Near Eastern and Semitic languages, literatures and linguistics, general

16.1101 Arabic language and literature

16.1102 Hebrew language and literature

16.1103 Ancient Near Eastern and Biblical languages, literatures and linguistics

16.1199 Middle/Near Eastern and Semitic languages, literatures and linguistics, other

16.12 Classics and classical languages, literatures and linguistics

16.1200 Classics and classical languages, literatures and linguistics, general

16.1202 Ancient/classical Greek language and literature

16.1203 Latin language and literature

16.1299 Classics and classical languages, literatures and linguistics, other

16.13 Celtic languages, literatures and linguistics

16.1301 Celtic languages, literatures and linguistics

16.14 Southeast Asian and Australasian/Pacific languages, literatures and linguistics

16.1400 Southeast Asian languages, literatures and linguistics, general

16.1401 Australian/Oceanic/Pacific languages, literatures and linguistics

16.1402 Indonesian/Malay languages and literatures

16.1403 Burmese language and literature

16.1404 Philippine/Tagalog language and literature

16.1405 Khmer/Cambodian language and literature

16.1406 Lao language and literature

16.1407 Thai language and literature

16.1408 Vietnamese language and literature

16.1409 Hawaiian language and literature

16.1499 Southeast Asian and Australasian/Pacific languages, literatures and linguistics, other

16.15 Turkic, Uralic-Altaic, Caucasian and Central Asian languages, literatures and linguistics

16.1501 Turkish language and literature

16.1502 Uralic languages, literatures and linguistics

16.1503 Hungarian/Magyar language and literature

16.1504 Mongolian language and literature

16.1599 Turkic, Uralic-Altaic, Caucasian and Central Asian languages, literatures and linguistics, other

16.16 Sign language

16.1601 American Sign Language (ASL)/Langue des signes québécoise (LSQ)

16.1602 Linguistics of sign language

16.1603 Sign language interpretation and translation

16.1699 Sign language, other

16.17 Second language learning

16.1701 English as a second language

16.1702 French as a second language^{CAN}

16.1799 Second language learning, other^{CAN}

16.18 Armenian languages, literatures, and linguistics

16.1801 Armenian languages, literatures, and linguistics

16.99 Indigenous and foreign languages, literatures and linguistics, other

16.9999 Indigenous and foreign languages, literatures and linguistics, other

19. Family and consumer sciences/human sciences

19.01 Family and consumer sciences/human sciences, general

19.0101 Family and consumer sciences/human sciences, general

19.02 Family and consumer sciences/human sciences business services

19.0201 Business, family and consumer sciences/human sciences

19.0202 Family and consumer sciences/human sciences communication

19.0203 Consumer merchandising/retailing management

19.0299 Family and consumer sciences/human sciences business services, other

19.04 Family and consumer economics and related services

19.0401 Family resource management studies, general

19.0402 Consumer economics

19.0403 Consumer services and advocacy

19.0499 Family and consumer economics and related services, other

19.05 Foods, nutrition and related services

19.0501 Foods, nutrition and wellness studies, general

19.0504 Human nutrition

19.0505 Foodservice systems administration/management

19.0599 Foods, nutrition and related services, other

19.06 Housing and human environments

19.0601 Housing and human environments, general

19.0604 Facilities planning and management

19.0605 Home furnishings and equipment installers

19.0699 Housing and human environments, other

19.07 Human development, family studies and related services

19.0701 Human development and family studies, general

19.0702 Adult development and aging

19.0704 Family systems

19.0706 Child development

19.0707 Family and community services

19.0708 Child care and support services management

19.0709 Child care provider/assistant

- 19.0710 Developmental services worker
- 19.0711 Early childhood and family studies
- 19.0712 Parent education services
- 19.0799 Human development, family studies and related services, other

19.09 Apparel and textiles

- 19.0901 Apparel and textiles, general
- 19.0902 Apparel and textile manufacture
- 19.0904 Textile science
- 19.0905 Apparel and textile marketing management
- 19.0906 Fashion and fabric consultant
- 19.0999 Apparel and textiles, other

19.10 Work and family studies

- 19.1001 Work and family studies

19.99 Family and consumer sciences/human sciences, other

- 19.9999 Family and consumer sciences/human sciences, other

21. Pre-technology education/pre-industrial arts programs^{CAN}

21.01 Pre-technology education/pre-industrial arts programs^{CAN}

- 21.0101 Pre-technology education/pre-industrial arts programs^{CAN}

22. Legal professions and studies

22.00 Non-professional legal studies

- 22.0000 Legal studies
- 22.0001 Pre-law studies
- 22.0099 Non-professional legal studies, other

22.01 Law (LLB, JD, BCL)

- 22.0101 Law (LLB, JD, BCL)

22.02 Legal research and advanced professional studies (post-LLB/JD)

- 22.0201 Advanced legal research/studies, general (LLM, MCL, MLI, MSL, LLD, JSD/SJD)
- 22.0202 Programs for foreign lawyers (LLM, MCL)
- 22.0203 American/US law/legal studies/jurisprudence (LLM, MCJ, LLD, JSD/SJD)
- 22.0204 Canadian law/legal studies/jurisprudence (LLM, MCJ, LLD, JSD/SJD)
- 22.0205 Banking, corporate, finance and securities law (LLM, LLD, JSD/SJD)
- 22.0206 Comparative law (LLM, MCL, LLD, JSD/SJD)
- 22.0207 Energy, environment and natural resources law (LLM, MS, MSc, LLD, JSD/SJD)
- 22.0208 Health law (LLM, MJ, LLD, JSD/SJD)
- 22.0209 International law and legal studies (LLM, LLD, JSD/SJD)
- 22.0210 International business, trade and tax law (LLM, LLD, JSD/SJD)
- 22.0211 Tax law/taxation (LLM, LLD, JSD/SJD)
- 22.0212 Intellectual property law (LLM, LLD, JSD/SJD)
- 22.0213 Patent law (LLM, LLD, JSD/SJD)

- 22.0214 Agriculture law (JM/MJ, LL.M, MA, ML, MSL/MLS, LL.D, JSD/SJD, PhD)
- 22.0215 Arts and entertainment law (LL.M, LL.D, JSD/SJD)
- 22.0216 Compliance law (JM/MJ, LL.M, ML, MSL/MLS, LL.D, JSD/SJD, PhD)
- 22.0217 Criminal law and procedure (LL.M, LL.D, JSD/SJD)
- 22.0218 Entrepreneurship law (LL.M, LL.D, JSD/SJD)
- 22.0219 Family/child/elder law (LL.M, LL.D, JSD/SJD)
- 22.0220 Human resources law/labour and employment law (LL.M, LL.D, JSD/SJD)
- 22.0221 Insurance law (LL.M, LL.D, JSD/SJD)
- 22.0222 Real estate and land development law (LL.M, LL.D, JSD/SJD)
- 22.0223 Transportation law (LL.M, LL.D, JSD/SJD)
- 22.0224 Tribal/Indigenous law (LL.M, LL.D, JSD/SJD)
- 22.0299 Legal research and advanced professional studies, other (post-LLB/JD)

22.03 Legal support services

- 22.0301 Legal administrative assistant/secretary
- 22.0302 Legal assistant/paralegal
- 22.0303 Court reporting and captioning/court reporter
- 22.0304 Court interpreter
- 22.0305 Scopist
- 22.0399 Legal support services, other

22.99 Legal professions and studies, other

- 22.9999 Legal professions and studies, other

23. English language and literature/letters

23.01 English language and literature, general

- 23.0101 English language and literature, general

23.13 English rhetoric and composition/writing studies

- 23.1301 English writing, general
- 23.1302 English creative writing
- 23.1303 English professional, technical, business, and scientific writing
- 23.1304 English rhetoric and composition
- 23.1399 English rhetoric and composition/writing studies, other

23.14 English literature

- 23.1401 English literature, general
- 23.1402 American literature
- 23.1403 Canadian literature, English
- 23.1404 British and Commonwealth literature, English
- 23.1405 Children's and adolescent literature, English
- 23.1499 English literature, other

23.99 English language and literature/letters, other

- 23.9999 English language and literature/letters, other

24. Liberal arts and sciences, general studies and humanities

24.01 Liberal arts and sciences, general studies and humanities

24.0101 Liberal arts and sciences/liberal studies

24.0102 General studies

24.0103 Humanities/humanistic studies

24.0199 Liberal arts and sciences, general studies and humanities, other

25. Library science

25.01 Library science and administration

25.0101 Library and information science

25.0102 Children and youth library services

25.0103 Archives/archival administration

25.0199 Library science and administration, other

25.03 Library and archives assisting

25.0301 Library and archives assisting

25.99 Library science, other

25.9999 Library science, other

26. Biological and biomedical sciences

26.01 Biology, general

26.0101 Biology/biological sciences, general

26.0102 Biomedical sciences, general

26.02 Biochemistry/biophysics and molecular biology

26.0202 Biochemistry

26.0203 Biophysics

26.0204 Molecular biology

26.0205 Molecular biochemistry

26.0206 Molecular biophysics

26.0207 Structural biology

26.0208 Photobiology

26.0209 Radiation biology/radiobiology

26.0210 Biochemistry and molecular biology

26.0299 Biochemistry/biophysics and molecular biology, other

26.03 Botany/plant biology

26.0301 Botany/plant biology, general

26.0305 Plant pathology/phytopathology

26.0307 Plant physiology

26.0308 Plant molecular biology

26.0399 Botany/plant biology, other

26.04 Cell/cellular biology and anatomical sciences

26.0401 Cell/cellular biology and histology

26.0403 Anatomy

26.0404 Developmental biology and embryology

- 26.0406 Cell/cellular and molecular biology
- 26.0407 Cell biology and anatomy
- 26.0499 Cell/cellular biology and anatomical sciences, other

26.05 Microbiological sciences and immunology

- 26.0502 Microbiology, general
- 26.0503 Medical microbiology and bacteriology
- 26.0504 Virology
- 26.0505 Parasitology
- 26.0506 Mycology
- 26.0507 Immunology
- 26.0508 Microbiology and immunology
- 26.0509 Infectious disease and global health
- 26.0599 Microbiological sciences and immunology, other

26.07 Zoology/animal biology

- 26.0701 Zoology/animal biology, general
- 26.0702 Entomology
- 26.0707 Animal physiology
- 26.0708 Animal behaviour and ethology
- 26.0709 Wildlife biology
- 26.0799 Zoology/animal biology, other

26.08 Genetics

- 26.0801 Genetics, general
- 26.0802 Molecular genetics
- 26.0803 Microbial and eukaryotic genetics
- 26.0804 Animal genetics
- 26.0805 Plant genetics
- 26.0806 Human/medical genetics
- 26.0807 Genome sciences/genomics
- 26.0899 Genetics, other

26.09 Physiology, pathology and related sciences

- 26.0901 Physiology, general
- 26.0902 Molecular physiology
- 26.0903 Cell physiology
- 26.0904 Endocrinology
- 26.0905 Reproductive biology
- 26.0907 Cardiovascular science
- 26.0908 Exercise physiology
- 26.0909 Vision science/physiological optics
- 26.0910 Pathology/experimental pathology
- 26.0911 Oncology and cancer biology

- 26.0912 Aerospace physiology and medicine
- 26.0913 Biomechanics
- 26.0999 Physiology, pathology and related sciences, other

26.10 Pharmacology and toxicology

- 26.1001 Pharmacology
- 26.1002 Molecular pharmacology
- 26.1003 Neuropharmacology
- 26.1004 Toxicology
- 26.1005 Molecular toxicology
- 26.1006 Environmental toxicology
- 26.1007 Pharmacology and toxicology, integrated
- 26.1099 Pharmacology and toxicology, other

26.11 Biomathematics, bioinformatics, and computational biology

- 26.1101 Biometry/biometrics
- 26.1102 Biostatistics
- 26.1103 Bioinformatics
- 26.1104 Computational biology
- 26.1199 Biomathematics, bioinformatics, and computational biology, other

26.12 Biotechnology

- 26.1201 Biotechnology

26.13 Ecology, evolution, systematics and population biology

- 26.1301 Ecology
- 26.1302 Marine biology and biological oceanography
- 26.1303 Evolutionary biology
- 26.1304 Aquatic biology/limnology
- 26.1305 Environmental biology
- 26.1306 Population biology
- 26.1307 Conservation biology
- 26.1308 Systematic biology/biological systematics
- 26.1309 Epidemiology
- 26.1310 Ecology and evolutionary biology
- 26.1311 Epidemiology and biostatistics
- 26.1399 Ecology, evolution, systematics and population biology, other

26.14 Molecular medicine

- 26.1401 Molecular medicine

26.15 Neurobiology and neurosciences

- 26.1501 Neuroscience
- 26.1502 Neuroanatomy
- 26.1503 Neurobiology and anatomy
- 26.1504 Neurobiology and behaviour

26.1599 Neurobiology and neurosciences, other

26.99 Biological and biomedical sciences, other

26.9999 Biological and biomedical sciences, other

27. Mathematics and statistics

27.01 Mathematics

27.0101 Mathematics, general

27.0102 Algebra and number theory

27.0103 Analysis and functional analysis

27.0104 Geometry/geometric analysis

27.0105 Topology and foundations

27.0199 Mathematics, other

27.03 Applied mathematics

27.0301 Applied mathematics, general

27.0303 Computational mathematics

27.0304 Computational and applied mathematics

27.0305 Financial mathematics

27.0306 Mathematical biology

27.0399 Applied mathematics, other

27.05 Statistics

27.0501 Statistics, general

27.0502 Mathematical statistics and probability

27.0503 Mathematics and statistics

27.0599 Statistics, other

27.06 Applied statistics

27.0601 Applied statistics, general

27.99 Mathematics and statistics, other

27.9999 Mathematics and statistics, other

28. Military science, leadership and operational art^{CAN}

28.08 Military science, leadership and operational art^{CAN}

28.0801 Military science, leadership and operational art^{CAN}

29. Military technologies and applied sciences

29.05 Military technologies and applied sciences

29.0501 Military technologies and applied sciences

30. Multidisciplinary/interdisciplinary studies

30.00 Inclusive postsecondary education

30.0001 Inclusive postsecondary education

30.01 Biological and physical sciences

30.0101 Biological and physical sciences

30.05 Peace studies and conflict resolution

30.0501 Peace studies and conflict resolution

30.06 Systems science and theory

30.0601 Systems science and theory

30.08 Mathematics and computer science

30.0801 Mathematics and computer science

30.10 Biopsychology

30.1001 Biopsychology

30.11 Gerontology

30.1101 Gerontology

30.12 Historic preservation and conservation

30.1201 Historic preservation and conservation, general

30.1202 Cultural resource management and policy analysis

30.1299 Historic preservation and conservation, other

30.13 Medieval and renaissance studies

30.1301 Medieval and renaissance studies

30.14 Museology/museum studies

30.1401 Museology/museum studies

30.15 Science, technology and society

30.1501 Science, technology and society

30.16 Accounting and computer science

30.1601 Accounting and computer science

30.17 Behavioural sciences

30.1701 Behavioural sciences

30.18 Natural sciences

30.1801 Natural sciences

30.19 Nutrition sciences

30.1901 Nutrition sciences

30.20 International/globalization studies

30.2001 International/globalization studies

30.21 Holocaust and related studies

30.2101 Holocaust and related studies

30.22 Classical and ancient studies

30.2201 Ancient studies/civilization

30.2202 Classical, ancient Mediterranean and Near Eastern studies and archaeology

30.2299 Classical and ancient studies, other

30.23 Intercultural/multicultural and diversity studies

30.2301 Intercultural/multicultural and diversity studies

30.25 Cognitive science

30.2501 Cognitive science, general

30.2502 Contemplative studies/inquiry

30.2599 Cognitive science, other

30.26 Cultural studies/critical theory and analysis

30.2601 Cultural studies/critical theory and analysis

30.27 Human biology

30.2701 Human biology

30.28 Dispute resolution

30.2801 Dispute resolution

30.29 Maritime studies

30.2901 Maritime studies

30.30 Computational science

30.3001 Computational science

30.31 Human computer interaction

30.3101 Human computer interaction

30.32 Marine sciences

30.3201 Marine sciences

30.33 Sustainability studies

30.3301 Sustainability studies

30.34 Anthrozoology

30.3401 Anthrozoology

30.35 Climate science

30.3501 Climate science

30.36 Cultural studies and comparative literature

30.3601 Cultural studies and comparative literature

30.37 Design for human health

30.3701 Design for human health

30.38 Earth systems science

30.3801 Earth systems science

30.39 Economics and computer science

30.3901 Economics and computer science

30.40 Economics and foreign language/literature

30.4001 Economics and foreign language/literature

30.41 Environmental geosciences

30.4101 Environmental geosciences

30.42 Geoarchaeology

30.4201 Geoarchaeology

30.43 Geobiology

30.4301 Geobiology

30.44 Geography and environmental studies

30.4401 Geography and environmental studies

30.45 History and language/literature

30.4501 History and language/literature

30.46 History and political science

30.4601 History and political science

30.47 Linguistics and anthropology

30.4701 Linguistics and anthropology

30.48 Linguistics and computer science

30.4801 Linguistics and computer science

30.49 Mathematical economics

30.4901 Mathematical economics

30.50 Mathematics and atmospheric/oceanic science

30.5001 Mathematics and atmospheric/oceanic science

30.51 Integrated philosophy, politics, and economics

30.5101 Integrated philosophy, politics, and economics

30.52 Digital humanities and textual studies

30.5201 Digital humanities and textual studies, general

30.5202 Digital humanities

30.5203 Textual studies

30.5299 Digital humanities and textual studies, other

30.53 Thanatology

30.5301 Thanatology

30.70 Data science

30.7001 Data science, general

30.7099 Data science, other

30.71 Data analytics

30.7101 Data analytics, general

30.7102 Business analytics

30.7103 Data visualization

30.7104 Financial analytics

30.7199 Data analytics, other

30.99 Multidisciplinary/interdisciplinary studies, other

30.9999 Multidisciplinary/interdisciplinary studies, other

31. Parks, recreation, leisure, fitness, and kinesiology

31.01 Parks, recreation, and leisure studies

31.0101 Parks, recreation, and leisure studies

31.03 Parks, recreation, and leisure facilities management

31.0301 Parks, recreation, and leisure facilities management, general

31.0302 Golf course operation and grounds management

31.0399 Parks, recreation, and leisure facilities management, other

31.05 Sports, kinesiology, and physical education/physical fitness

31.0501 Sports, kinesiology, and physical education/physical fitness, general

31.0504 Sport and fitness administration/management

31.0505 Exercise science and kinesiology

31.0507 Physical fitness technician

31.0508 Sports studies

31.0599 Sports, kinesiology, and physical education/physical fitness, other

31.06 Outdoor education

31.0601 Outdoor education

31.99 Parks, recreation, leisure, fitness, and kinesiology, other

31.9999 Parks, recreation, leisure, fitness, and kinesiology, other

32. Basic skills and general exam preparation (not for credit)

32.01 Basic skills (not for credit)

32.0101 Basic skills, general (not for credit)

32.0104 Numeracy and computational skills (not for credit)

32.0105 Job-seeking/changing skills (not for credit)

32.0107 Career exploration/awareness skills (not for credit)

32.0108 Literacy and communication skills (not for credit)

32.0109 Second language learning (not for credit)

32.0110 Basic computer skills (not for credit)

32.0111 Workforce development and training (not for credit)

32.0112 Accent reduction/modification (not for credit)

32.0199 Basic skills, other (not for credit)

32.02 Exam preparation and test-taking skills (not for credit)

32.0201 Exam preparation and test-taking skills, general (not for credit)

32.0202 High school equivalency/GED exam preparation (not for credit)

32.0203 Undergraduate entrance/placement examination preparation (not for credit)

32.0204 Graduate/professional school entrance examination preparation (not for credit)

32.0205 Professional certification/licensure examination preparation (not for credit)

32.0299 Exam preparation and test-taking skills, other (not for credit)

32.99 Basic skills and general exam preparation, other (not for credit)

32.9999 Basic skills and general exam preparation, other (not for credit)

33. Citizenship activities (not for credit)

33.01 Citizenship activities (not for credit)

33.0101 Citizenship activities, general (not for credit)

33.0102 American citizenship education (not for credit)

33.0103 Community awareness (not for credit)

33.0104 Community involvement (not for credit)

33.0105 Canadian citizenship education (not for credit)

33.0106 Personal emergency preparedness (not for credit)

33.0199 Citizenship activities, other (not for credit)

34. Health-related knowledge and skills (not for credit)

34.01 Health-related knowledge and skills (not for credit)

34.0102 Birthing and parenting knowledge and skills (not for credit)

34.0103 Personal health improvement and maintenance (not for credit)

34.0104 Addiction prevention and treatment (not for credit)

34.0105 Meditation/mind-body wellness (not for credit)

34.0199 Health-related knowledge and skills, other (not for credit)

35. Interpersonal and social skills (not for credit)

35.01 Interpersonal and social skills (not for credit)

35.0101 Interpersonal and social skills, general (not for credit)

35.0102 Interpersonal relationships skills (not for credit)

35.0103 Business and social skills (not for credit)

35.0105 Life coaching (not for credit)

35.0199 Interpersonal and social skills, other (not for credit)

36. Leisure and recreational activities and non-commercial vehicle operation (not for credit)

36.01 Leisure and recreational activities (not for credit)

36.0101 Leisure and recreational activities, general (not for credit)

36.0102 Handicrafts and model-making (not for credit)

36.0103 Board, card and role-playing games (not for credit)

36.0105 Home maintenance and improvement (not for credit)

36.0106 Nature appreciation (not for credit)

36.0107 Pet ownership and care (not for credit)

36.0108 Sports and exercise (not for credit)

36.0109 Travel and exploration (not for credit)

36.0110 Art (not for credit)

36.0111 Collecting (not for credit)

36.0112 Cooking and other domestic skills (not for credit)

36.0113 Computer games and programming skills (not for credit)

36.0114 Dancing (not for credit)

36.0115 Music (not for credit)

36.0116 Reading (not for credit)

36.0117 Theatre (not for credit)

36.0118 Writing (not for credit)

36.0120 Beekeeping (not for credit)

36.0121 Firearms training/safety (not for credit)

36.0122 Floral design/arrangement (not for credit)

36.0123 Master gardener/gardening (not for credit)

36.0199 Leisure and recreational activities, other (not for credit)

36.02 Non-commercial vehicle operation (not for credit)

36.0202 Aircraft pilot (private) (not for credit)

36.0203 Automobile driver education (not for credit)

36.0204 Helicopter pilot (private) (not for credit)

36.0205 Motorcycle rider education (not for credit)

36.0206 Personal watercraft/boating education (not for credit)

36.0207 Remote aircraft pilot (not for credit)

36.0299 Non-commercial vehicle operation, other (not for credit)

36.99 Leisure and recreational activities and non-commercial vehicle operation, other (not for credit)

36.9999 Leisure and recreational activities and non-commercial vehicle operation, other (not for credit)

37. Personal awareness and self-improvement (not for credit)

37.01 Personal awareness and self-improvement (not for credit)

37.0101 Self-awareness and personal assessment (not for credit)

37.0102 Stress management and coping skills (not for credit)

37.0103 Personal decision-making skills (not for credit)

37.0104 Self-esteem and values clarification (not for credit)

37.0106 Investing/wealth management/retirement planning (not for credit)

37.0107 Self-defence (not for credit)

37.0199 Personal awareness and self-improvement, other (not for credit)

38. Philosophy and religious studies

38.00 Philosophy and religious studies, general

38.0001 Philosophy and religious studies, general

38.01 Philosophy, logic and ethics

38.0101 Philosophy

38.0102 Logic

38.0103 Ethics

38.0104 Applied and professional ethics

38.0199 Philosophy, logic and ethics, other

38.02 Religion/religious studies

38.0201 Religion/religious studies, general

38.0202 Buddhist studies

38.0203 Christian studies

38.0204 Hindu studies

38.0205 Islamic studies

38.0206 Jewish/Judaic studies

38.0207 Talmudic studies

38.0208 Catholic studies

38.0209 Mormon studies

38.0299 Religion/religious studies, other

38.99 Philosophy and religious studies, other

38.9999 Philosophy and religious studies, other

39. Theology and religious vocations

39.02 Bible/Biblical studies

39.0201 Bible/Biblical studies

39.03 Missions/missionary studies and missiology

39.0301 Missions/missionary studies

39.0302 Church planting

39.0399 Missions/missionary studies and missiology, other

39.04 Religious education

39.0401 Religious education

39.05 Religious music and worship

39.0501 Religious/sacred music

39.0502 Christian contemporary worship music/worship ministry

39.0599 Religious music and worship, other

39.06 Theological and ministerial studies

39.0601 Theology/theological studies

39.0602 Divinity/ministry (BDiv, MDiv)

39.0604 Pre-theology/pre-ministerial studies

39.0605 Rabbinical studies (MHL/Rav)

39.0699 Theological and ministerial studies, other

39.07 Pastoral counselling and specialized ministries

39.0701 Pastoral studies/counselling

39.0702 Youth ministry

39.0703 Urban ministry

39.0704 Women's ministry

39.0705 Lay ministry

39.0706 Chaplain/chaplaincy studies

39.0799 Pastoral counselling and specialized ministries, other

39.08 Religious institution administration and law

39.0801 Religious institution administration and management

39.0802 Religious/canon law

39.0899 Religious institution administration and law, other

39.99 Theology and religious vocations, other

39.9999 Theology and religious vocations, other

40. Physical sciences

40.01 Physical sciences, general

40.0101 Physical sciences, general

40.02 Astronomy and astrophysics

- 40.0201 Astronomy
- 40.0202 Astrophysics
- 40.0203 Planetary astronomy and science
- 40.0299 Astronomy and astrophysics, other

40.04 Atmospheric sciences and meteorology

- 40.0401 Atmospheric sciences and meteorology, general
- 40.0402 Atmospheric chemistry and climatology
- 40.0403 Atmospheric physics and dynamics
- 40.0404 Meteorology
- 40.0499 Atmospheric sciences and meteorology, other

40.05 Chemistry

- 40.0501 Chemistry, general
- 40.0502 Analytical chemistry
- 40.0503 Inorganic chemistry
- 40.0504 Organic chemistry
- 40.0506 Physical chemistry
- 40.0507 Polymer chemistry
- 40.0508 Chemical physics
- 40.0509 Environmental chemistry
- 40.0510 Forensic chemistry
- 40.0511 Theoretical chemistry
- 40.0512 Cheminformatics/chemistry informatics
- 40.0599 Chemistry, other

40.06 Geological and Earth sciences/geosciences

- 40.0601 Geology/Earth science, general
- 40.0602 Geochemistry
- 40.0603 Geophysics and seismology
- 40.0604 Paleontology
- 40.0605 Hydrology and water resources science
- 40.0606 Geochemistry and petrology
- 40.0607 Oceanography, chemical and physical
- 40.0699 Geological and Earth sciences/geosciences, other

40.08 Physics

- 40.0801 Physics, general
- 40.0802 Atomic/molecular physics
- 40.0804 Elementary particle physics
- 40.0805 Plasma and high-temperature physics
- 40.0806 Nuclear physics
- 40.0807 Optics/optical sciences

40.0808 Condensed matter and materials physics

40.0809 Acoustics

40.0810 Theoretical and mathematical physics

40.0899 Physics, other

40.10 Materials sciences

40.1001 Materials science

40.1002 Materials chemistry

40.1099 Materials sciences, other

40.11 Physics and astronomy

40.1101 Physics and astronomy

40.99 Physical sciences, other

40.9999 Physical sciences, other

41. Science technologies/technicians

41.00 Science technologies/technicians, general

41.0000 Science technologies/technicians, general

41.01 Biology and biotechnology technologies/technicians

41.0101 Biology and biotechnology technologies/technicians

41.02 Nuclear and industrial radiologic technologies/technicians

41.0204 Industrial radiologic technology/technician

41.0205 Nuclear/nuclear power technology/technician

41.0299 Nuclear and industrial radiologic technologies/technicians, other

41.03 Physical science technologies/technicians

41.0301 Chemical technology/technician

41.0303 Chemical process technology

41.0399 Physical science technologies/technicians, other

41.99 Science technologies/technicians, other

41.9999 Science technologies/technicians, other

42. Psychology

42.01 Psychology, general

42.0101 Psychology, general

42.27 Research and experimental psychology

42.2701 Cognitive psychology and psycholinguistics

42.2702 Comparative psychology

42.2703 Developmental and child psychology

42.2704 Experimental psychology

42.2705 Personality psychology

42.2706 Behavioural neuroscience

42.2707 Social psychology

42.2708 Psychometrics and quantitative psychology

42.2709 Psychopharmacology

- 42.2710 Developmental and adolescent psychology
- 42.2799 Research and experimental psychology, other

42.28 Clinical, counselling and applied psychology

- 42.2801 Clinical psychology
- 42.2802 Community psychology
- 42.2803 Counselling psychology
- 42.2804 Industrial and organizational psychology
- 42.2805 School psychology
- 42.2806 Educational psychology
- 42.2807 Clinical child psychology
- 42.2808 Environmental psychology
- 42.2809 Geropsychology
- 42.2810 Health/medical psychology
- 42.2811 Family psychology
- 42.2812 Forensic psychology
- 42.2813 Applied psychology
- 42.2814 Applied behaviour analysis
- 42.2815 Performance and sport psychology
- 42.2816 Somatic psychology
- 42.2817 Transpersonal/spiritual psychology
- 42.2899 Clinical, counselling and applied psychology, other

42.99 Psychology, other

- 42.9999 Psychology, other

43. Security and protective services

43.01 Criminal justice and corrections

- 43.0100 Criminal justice and corrections, general
- 43.0102 Corrections
- 43.0103 Criminal justice/law enforcement administration
- 43.0104 Criminal justice/safety studies
- 43.0107 Criminal justice/police science
- 43.0109 Security and loss prevention services
- 43.0110 Juvenile corrections
- 43.0112 Securities services administration/management
- 43.0113 Corrections administration
- 43.0114 Law enforcement investigation and interviewing
- 43.0115 Law enforcement record keeping and evidence management
- 43.0119 Critical incident response/special police operations
- 43.0120 Protective services operations
- 43.0121 Suspension and debarment investigation
- 43.0122 Maritime law enforcement

43.0123 Cultural/archaeological resources protection

43.0199 Criminal justice and corrections, other

43.02 Fire protection

43.0201 Fire prevention and safety technology/technician

43.0202 Fire services administration

43.0203 Fire science/firefighting

43.0204 Fire systems technology

43.0205 Fire/arson investigation and prevention

43.0206 Wildland/forest firefighting and investigation

43.0299 Fire protection, other

43.03 Security and protective services, specialized programs

43.0302 Crisis/emergency/disaster management

43.0399 Security and protective services, specialized programs, other

43.04 Security science and technology

43.0401 Security science and technology, general

43.0402 Criminalistics and criminal science

43.0403 Cyber/computer forensics and counterterrorism

43.0404 Cybersecurity defense strategy/policy

43.0405 Financial forensics and fraud investigation

43.0406 Forensic science and technology

43.0407 Geospatial intelligence

43.0408 Law enforcement intelligence analysis

43.0499 Security science and technology, other

43.99 Security and protective services, other

43.9999 Security and protective services, other

44. Public administration and social service professions

44.00 Human services, general

44.0000 Human services, general

44.02 Community organization and advocacy

44.0201 Community organization and advocacy

44.04 Public administration

44.0401 Public administration, general

44.0402 Public works management

44.0403 Public transportation and infrastructure planning/studies

44.0499 Public administration, other

44.05 Public policy analysis

44.0501 Public policy analysis, general

44.0502 Education policy analysis

44.0503 Health policy analysis

44.0504 International public policy analysis

44.0580 Cannabis-related public policy analysis^{CAN}

44.0599 Public policy analysis, other

44.07 Social work

44.0701 Social work, general

44.0702 Youth services/administration

44.0703 Forensic social work

44.0799 Social work, other

44.99 Public administration and social service professions, other

44.9999 Public administration and social service professions, other

45. Social sciences

45.01 General social sciences

45.0101 Social sciences, general

45.0102 Research methodology and quantitative methods

45.0103 Survey research/methodology

45.0199 General social sciences, other

45.02 Anthropology

45.0201 Anthropology, general

45.0202 Physical and biological anthropology

45.0203 Medical anthropology

45.0204 Cultural anthropology

45.0205 Forensic anthropology

45.0299 Anthropology, other

45.03 Archaeology

45.0301 Archaeology

45.04 Criminology

45.0401 Criminology

45.05 Demography

45.0501 Demography and population studies

45.0502 Applied demography

45.0599 Demography, other

45.06 Economics

45.0601 Economics, general

45.0602 Applied economics

45.0603 Econometrics and quantitative economics

45.0604 Development economics and international development

45.0605 International economics

45.0699 Economics, other

45.07 Geography and cartography

45.0701 Geography

45.0702 Geographic information science and cartography

45.0799 Geography and cartography, other

45.09 International relations and national security studies

45.0901 International relations and affairs

45.0902 National security policy studies

45.0999 International relations and national security studies, other

45.10 Political science and government

45.1001 Political science and government, general

45.1002 American government and politics (United States)

45.1003 Canadian government and politics

45.1004 Political economy

45.1099 Political science and government, other

45.11 Sociology

45.1101 Sociology, general

45.1102 Applied/public sociology

45.1103 Rural sociology

45.1199 Sociology, other

45.12 Urban studies/affairs

45.1201 Urban studies/affairs

45.13 Sociology and anthropology

45.1301 Sociology and anthropology

45.15 Geography and anthropology

45.1501 Geography and anthropology

45.99 Social sciences, other

45.9999 Social sciences, other

46. Construction trades

46.00 Construction trades, general

46.0000 Construction trades, general

46.01 Masonry/mason

46.0101 Masonry/mason

46.02 Carpentry/carpenter

46.0201 Carpentry/carpenter

46.03 Electrical and power transmission installers

46.0301 Electrical and power transmission installation/installer, general

46.0302 Electrician

46.0303 Lineworker

46.0399 Electrical and power transmission installers, other

46.04 Building/construction finishing, management and inspection

46.0401 Building/property maintenance

46.0402 Concrete finishing/concrete finisher

46.0403 Building/home/construction inspection/inspector

- 46.0404 Drywall installation/drywaller
- 46.0406 Glazier
- 46.0408 Painting/painter and wall coverer
- 46.0410 Roofer
- 46.0411 Metal building assembly/assembler
- 46.0412 Building/construction site management/manager
- 46.0413 Carpet, floor, and tile worker
- 46.0414 Insulator
- 46.0415 Building construction technology/technician
- 46.0499 Building/construction finishing, management and inspection, other

46.05 Plumbing and related water supply services

- 46.0502 Pipefitting/pipefitter and sprinkler fitter
- 46.0503 Plumbing technology/plumber
- 46.0504 Well drilling/driller
- 46.0505 Blasting/blaster
- 46.0599 Plumbing and related water supply services, other

46.99 Construction trades, other

- 46.9999 Construction trades, other

47. Mechanic and repair technologies/technicians

47.00 Mechanics and repairers, general

- 47.0000 Mechanics and repairers, general

47.01 Electrical/electronics maintenance and repair technologies/technicians

- 47.0101 General electrical/electronics equipment installation and repair technology/technician
- 47.0102 Business machine repair
- 47.0103 Communications systems installation and repair technology/technician
- 47.0104 Computer installation and repair technology/technician
- 47.0105 Industrial electronics technology/technician
- 47.0106 Appliance installation and repair technology/technician
- 47.0110 Security system installation, repair and inspection technology/technician
- 47.0199 Electrical/electronics maintenance and repair technologies/technicians, other

47.02 Heating, air conditioning, ventilation and refrigeration maintenance technology/technician

- 47.0201 Heating, air conditioning, ventilation and refrigeration maintenance technology/technician

47.03 Heavy/industrial equipment maintenance technologies/technicians

- 47.0302 Heavy equipment maintenance technology/technician
- 47.0303 Industrial mechanics and maintenance technology/technician
- 47.0399 Heavy/industrial equipment maintenance technologies/technicians, other

47.04 Precision systems maintenance and repair technologies/technicians

- 47.0402 Gunsmithing/gunsmith

47.0403 Locksmithing and safe repair

47.0404 Musical instrument fabrication and repair

47.0408 Watchmaking and jewellery making

47.0409 Parts and warehousing operations and maintenance technology/technician

47.0499 Precision systems maintenance and repair technologies/technicians, other

47.06 Vehicle maintenance and repair technologies/technicians

47.0600 Vehicle maintenance and repair technology/technician, general

47.0603 Autobody/collision and repair technology/technician

47.0604 Automobile/automotive mechanics technology/technician

47.0605 Diesel mechanics technology/technician

47.0606 Small engine mechanics and repair technology/technician

47.0607 Airframe mechanics and aircraft maintenance technology/technician

47.0608 Aircraft powerplant technology/technician

47.0609 Avionics maintenance technology/technician

47.0610 Bicycle mechanics and repair technology/technician

47.0611 Motorcycle maintenance and repair technology/technician

47.0612 Vehicle emissions inspection and maintenance technology/technician

47.0613 Medium/heavy vehicle and truck technology/technician

47.0614 Alternative fuel vehicle technology/technician

47.0615 Engine machinist

47.0616 Marine maintenance/fitter and ship repair technology/technician

47.0617 High performance and custom engine technician/mechanic

47.0618 Recreation vehicle (RV) service technician

47.0699 Vehicle maintenance and repair technologies/technicians, other

47.07 Energy systems maintenance and repair technologies/technicians

47.0701 Energy systems installation and repair technology/technician, general

47.0703 Solar energy system installation and repair technology/technician

47.0704 Wind energy system installation and repair technology/technician

47.0705 Hydroelectric energy system installation and repair technology/technician

47.0706 Geothermal energy system installation and repair technology/technician

47.0799 Energy systems maintenance and repair technologies/technicians, other

47.99 Mechanic and repair technologies/technicians, other

47.9999 Mechanic and repair technologies/technicians, other

48. Precision production

48.00 Precision production trades, general

48.0000 Precision production trades, general

48.03 Leatherworking and upholstery

48.0303 Upholstery/upholsterer

48.0304 Shoe, boot and leather repair

48.0399 Leatherworking and upholstery, other

48.05 Precision metal working

- 48.0501 Machine tool technology/machinist
- 48.0503 Machine shop technology/assistant
- 48.0506 Sheet metal technology/sheetworking
- 48.0507 Tool and die technology/technician
- 48.0508 Welding technology/welder
- 48.0509 Ironworking/ironworker
- 48.0510 Computer numerically controlled (CNC) machinist technology/CNC machinist
- 48.0511 Metal fabricator
- 48.0599 Precision metal working, other

48.07 Woodworking

- 48.0701 Woodworking, general
- 48.0702 Furniture design and manufacturing
- 48.0703 Cabinetmaking and millwork
- 48.0704 Wooden boatbuilding technology/technician
- 48.0799 Woodworking, other

48.08 Boilermaking/boilermaker

- 48.0801 Boilermaking/boilermaker

48.99 Precision production, other

- 48.9999 Precision production, other

49. Transportation and materials moving**49.01 Air transportation**

- 49.0101 Aeronautics/aviation/aerospace science and technology, general
- 49.0102 Airline/commercial/professional pilot and flight crew
- 49.0104 Aviation/airway management and operations
- 49.0105 Air traffic controller
- 49.0106 Airline flight attendant
- 49.0108 Flight instructor
- 49.0109 Remote aircraft pilot
- 49.0199 Air transportation, other

49.02 Ground transportation

- 49.0202 Construction/heavy equipment/earthmoving equipment operation
- 49.0205 Truck and bus driver/commercial vehicle operator and instructor
- 49.0206 Mobile crane operation/operator
- 49.0207 Flagging and traffic control
- 49.0208 Railroad and railway transportation
- 49.0209 Forklift operation/operator
- 49.0299 Ground transportation, other

49.03 Marine transportation

- 49.0303 Commercial fishing

- 49.0304 Diver, professional and instructor
- 49.0309 Nautical science/merchant marine officer
- 49.0399 Marine transportation, other

49.99 Transportation and materials moving, other

- 49.9999 Transportation and materials moving, other

50. Visual and performing arts

50.01 Visual, digital and performing arts, general

- 50.0101 Visual and performing arts, general
- 50.0102 Digital arts, general

50.02 Crafts/craft design, folk art and artisanry

- 50.0201 Crafts/craft design, folk art and artisanry

50.03 Dance

- 50.0301 Dance, general
- 50.0302 Ballet
- 50.0399 Dance, other

50.04 Design and applied arts

- 50.0401 Design and visual communications, general
- 50.0402 Commercial and advertising art
- 50.0404 Industrial and product design
- 50.0406 Commercial photography
- 50.0407 Fashion/apparel design
- 50.0408 Interior design
- 50.0409 Graphic design
- 50.0410 Illustration
- 50.0411 Game and interactive media design
- 50.0499 Design and applied arts, other

50.05 Drama/theatre arts and stagecraft

- 50.0501 Drama and dramatics/theatre arts, general
- 50.0502 Technical theatre/theatre design and technology
- 50.0504 Playwriting and screenwriting
- 50.0505 Theatre literature, history and criticism
- 50.0506 Acting
- 50.0507 Directing and theatrical production
- 50.0509 Musical theatre
- 50.0510 Costume design
- 50.0511 Comedy writing and performance
- 50.0512 Theatre and dance
- 50.0599 Drama/theatre arts and stagecraft, other

50.06 Film/video and photographic arts

- 50.0601 Film/cinema/video studies

50.0602 Cinematography and film/video production

50.0605 Photography

50.0607 Documentary production

50.0699 Film/video and photographic arts, other

50.07 Fine arts and art studies

50.0701 Art/art studies, general

50.0702 Fine/studio arts, general

50.0703 Art history, criticism and conservation

50.0705 Drawing

50.0706 Intermedia/multimedia

50.0708 Painting

50.0709 Sculpture

50.0710 Printmaking

50.0711 Ceramic arts and ceramics

50.0712 Fibre, textile and weaving arts

50.0713 Jewellery arts

50.0714 Metal arts

50.0799 Fine arts and art studies, other

50.09 Music

50.0901 Music, general

50.0902 Music history, literature and theory

50.0903 Music performance, general

50.0904 Music theory and composition

50.0905 Musicology and ethnomusicology

50.0906 Conducting

50.0907 Keyboard instruments

50.0908 Voice and opera

50.0910 Jazz/jazz studies

50.0911 Stringed instruments

50.0912 Music pedagogy

50.0913 Music technology

50.0914 Brass instruments

50.0915 Woodwind instruments

50.0916 Percussion instruments

50.0917 Sound arts

50.0999 Music, other

50.10 Arts, entertainment, and media management

50.1001 Arts, entertainment, and media management, general

50.1002 Fine and studio arts management

50.1003 Music management

50.1004 Theatre/theatre arts management

50.1099 Arts, entertainment, and media management, other

50.11 Community/environmental/socially-engaged art

50.1101 Community/environmental/socially-engaged art

50.99 Visual and performing arts, other

50.9999 Visual and performing arts, other

51. Health professions and related programs

51.00 General health services/allied health/health sciences

51.0000 Health services/allied health/health sciences, general

51.0001 Health and wellness, general

51.01 Chiropractic (DC)

51.0101 Chiropractic (DC)

51.02 Communication disorders sciences and services

51.0201 Communication sciences and disorders, general

51.0202 Audiology/audiologist

51.0203 Speech-language pathology/pathologist

51.0204 Audiology/audiologist and speech-language pathology/pathologist

51.0299 Communication disorders sciences and services, other

51.04 Dentistry (DDS, DMD)

51.0401 Dentistry (DDS, DMD)

51.05 Advanced/graduate dentistry and oral sciences (Cert., MS, MSc, PhD)

51.0501 Dental clinical sciences, general (MS, MSc, PhD)

51.0502 Advanced general dentistry (Cert., MS, MSc, PhD)

51.0503 Oral biology and oral and maxillofacial pathology (MS, MSc, PhD)

51.0504 Dental public health and education (Cert., MS, MSc, MPH, PhD, DPH)

51.0505 Dental materials (MS, MSc, PhD)

51.0506 Endodontics/endodontology (Cert., MS, MSc, PhD)

51.0507 Oral/maxillofacial surgery (Cert., MS, MSc, PhD)

51.0508 Orthodontics/orthodontology (Cert., MS, MSc, PhD)

51.0509 Pediatric dentistry/pedodontics (Cert., MS, MSc, PhD)

51.0510 Periodontics/periodontology (Cert., MS, MSc, PhD)

51.0511 Prosthodontics/prosthodontology (Cert., MS, MSc, PhD)

51.0512 Digital dentistry (Cert., MS, MSc, PhD)

51.0513 Geriatric dentistry (Cert., MS, MSc, PhD)

51.0514 Implantology/implant dentistry (Cert., MS, MSc, PhD)

51.0599 Advanced/graduate dentistry and oral sciences, other (Cert., MS, MSc, PhD)

51.06 Dental support services and allied professions

51.0601 Dental assisting/assistant

51.0602 Dental hygiene/hygienist

51.0603 Dental laboratory technology/technician

51.0699 Dental support services and allied professions, other

51.07 Health and medical administrative services

- 51.0701 Health/health care administration/management
- 51.0702 Hospital and health care facilities administration/management
- 51.0703 Health unit coordinator/ward clerk
- 51.0704 Health unit manager/ward supervisor
- 51.0705 Medical office management/administration
- 51.0706 Health information/medical records administration/administrator
- 51.0707 Health information/medical records technology/technician
- 51.0708 Medical transcription/transcriptionist
- 51.0709 Medical office computer specialist/assistant
- 51.0710 Medical office assistant/specialist
- 51.0711 Medical/health management and clinical assistant/specialist
- 51.0712 Medical reception/receptionist
- 51.0713 Medical insurance coding specialist/coder
- 51.0714 Medical insurance specialist/medical biller
- 51.0715 Health/medical claims examiner
- 51.0716 Medical administrative/executive assistant and medical secretary
- 51.0717 Medical staff services technology/technician
- 51.0718 Long term care administration/management
- 51.0719 Clinical research coordinator
- 51.0720 Regulatory science/affairs
- 51.0721 Disease registry data management
- 51.0722 Healthcare innovation
- 51.0723 Healthcare information privacy assurance and security
- 51.0799 Health and medical administrative services, other

51.08 Allied health and medical assisting services

- 51.0801 Medical/clinical assistant
- 51.0802 Clinical/medical laboratory assistant
- 51.0803 Occupational therapist assistant
- 51.0805 Pharmacy technician/assistant
- 51.0806 Physical therapy assistant
- 51.0809 Anesthesiologist assistant
- 51.0810 Emergency care attendant (EMT ambulance)
- 51.0811 Pathology/pathologist assistant
- 51.0812 Respiratory therapy technician/assistant
- 51.0813 Chiropractic assistant/technician
- 51.0814 Radiologist assistant
- 51.0815 Lactation consultant
- 51.0816 Speech-language pathology assistant
- 51.0817 Rehabilitation assistant^{CAN}
- 51.0899 Allied health and medical assisting services, other

51.09 Allied health diagnostic, intervention and treatment professions

- 51.0901 Cardiovascular technology/technologist
- 51.0902 Electrocardiograph technology/technician
- 51.0903 Electroneurodiagnostic/electroencephalographic technology/technologist
- 51.0904 Emergency medical technology/technician (EMT paramedic)
- 51.0905 Nuclear medical technology/technologist
- 51.0906 Perfusion technology/perfusionist
- 51.0907 Radiation therapist/therapeutic radiographer
- 51.0908 Respiratory care therapy/therapist
- 51.0909 Surgical technology/technologist
- 51.0910 Diagnostic medical sonography/sonographer and ultrasound technician
- 51.0911 Medical radiation technologist/radiographer
- 51.0912 Physician assistant/associate
- 51.0913 Athletic training/trainer
- 51.0914 Gene/genetic therapy
- 51.0915 Cardiopulmonary technology/technologist
- 51.0916 Radiation protection/health physics technician
- 51.0917 Polysomnography
- 51.0918 Hearing instrument specialist
- 51.0919 Mammography technology/technician
- 51.0920 Magnetic resonance imaging (MRI) technology/technician
- 51.0921 Hyperbaric medicine technology/technician
- 51.0922 Intraoperative neuromonitoring technology/technician
- 51.0923 Orthopedic technology/technician
- 51.0924 Combined laboratory and X-ray technology^{CAN}
- 51.0999 Allied health diagnostic, intervention and treatment professions, other

51.10 Clinical/medical laboratory science/research and allied professions

- 51.1001 Blood bank technology specialist
- 51.1002 Cytotechnology/cytotechnologist
- 51.1003 Hematology technology/technician
- 51.1004 Clinical/medical laboratory technician
- 51.1005 Clinical laboratory science/medical technology/technologist
- 51.1006 Ophthalmic laboratory technology/technician
- 51.1007 Histologic technology/histotechnologist
- 51.1008 Histologic technician
- 51.1009 Phlebotomy technician/phlebotomist
- 51.1010 Cytogenetics/genetics/clinical genetics technology/technologist
- 51.1011 Renal/dialysis technologist/technician
- 51.1012 Sterile processing technology/technician
- 51.1099 Clinical/medical laboratory science/research and allied professions, other

51.11 Health/medical preparatory programs

- 51.1101 Pre-dentistry studies
- 51.1102 Pre-medicine/pre-medical studies
- 51.1103 Pre-pharmacy studies
- 51.1105 Pre-nursing studies
- 51.1106 Pre-chiropractic studies
- 51.1107 Pre-occupational therapy studies
- 51.1108 Pre-optometry studies
- 51.1109 Pre-physical therapy studies
- 51.1110 Pre-art therapy studies
- 51.1111 Pre-physician assistant studies
- 51.1199 Health/medical preparatory programs, other

51.12 Medicine

- 51.1201 Medicine (MD)
- 51.1202 Osteopathic medicine/osteopathy (DO)
- 51.1203 Podiatric medicine/podiatry (DPM)
- 51.1299 Medicine, other

51.14 Medical clinical sciences/graduate medical studies

- 51.1401 Medical science/scientist (MS, MSc, PhD)
- 51.1402 Clinical and translational science (Cert., MS, MSc, PhD)
- 51.1403 Pain management (Cert., MS, MSc, PhD)
- 51.1404 Temporomandibular disorders and orofacial pain (Cert., MS, MSc, PhD)
- 51.1405 Tropical medicine (Cert., MS, MSc, PhD)
- 51.1499 Medical clinical sciences/graduate medical studies, other

51.15 Mental and social health services and allied professions

- 51.1501 Substance abuse/addiction counselling
- 51.1502 Psychiatric/mental health services technician
- 51.1503 Clinical/medical social work
- 51.1504 Community health services/liaison/counselling
- 51.1505 Marriage and family therapy/counselling
- 51.1506 Clinical pastoral counselling/patient counselling
- 51.1507 Psychoanalysis and psychotherapy
- 51.1508 Mental health counselling/counsellor
- 51.1509 Genetic counselling/counsellor
- 51.1510 Infant/toddler mental health services
- 51.1511 Medical family therapy/therapist
- 51.1512 Hospice and palliative care
- 51.1513 Trauma counselling
- 51.1580 Cannabis abuse/cannabis addiction counselling^{CAN}
- 51.1599 Mental and social health services and allied professions, other

51.17 Optometry (OD)

51.1701 Optometry (OD)

51.18 Ophthalmic and optometric support services and allied professions

51.1801 Opticianry/ophthalmic dispensing optician

51.1802 Optometric technician/assistant

51.1803 Ophthalmic technician/technologist

51.1804 Orthoptics/orthoptist

51.1899 Ophthalmic and optometric support services and allied professions, other

51.20 Pharmacy, pharmaceutical sciences and administration

51.2001 Pharmacy (PharmD, BS, BSc, BPharm)

51.2002 Pharmacy administration and pharmacy policy and regulatory affairs (MS, MSc, PhD)

51.2003 Pharmaceutics and drug design (MS, MSc, PhD)

51.2004 Medicinal and pharmaceutical chemistry (MS, MSc, PhD)

51.2005 Natural products chemistry and pharmacognosy (MS, MSc, PhD)

51.2006 Clinical and industrial drug development (MS, MSc, PhD)

51.2007 Pharmacoeconomics/pharmaceutical economics (MS, MSc, PhD)

51.2008 Clinical, hospital and managed care pharmacy (MS, MSc, PhD)

51.2009 Industrial and physical pharmacy and cosmetic sciences (MS, MSc, PhD)

51.2010 Pharmaceutical sciences

51.2011 Pharmaceutical marketing and management

51.2099 Pharmacy, pharmaceutical sciences and administration, other

51.22 Public health

51.2201 Public health, general (BPH, MPH, DPH)

51.2202 Environmental health

51.2205 Health/medical physics

51.2206 Occupational health and industrial hygiene

51.2207 Public health education and promotion

51.2208 Community health and preventive medicine

51.2209 Maternal and child health

51.2210 International public health/international health

51.2211 Health services administration

51.2212 Behavioural aspects of health

51.2213 Patient safety and healthcare quality

51.2214 Public health genetics

51.2280 Cannabis-related public health^{CAN}

51.2299 Public health, other

51.23 Rehabilitation and therapeutic professions

51.2300 Rehabilitation and therapeutic professions, general

51.2301 Art therapy/therapist

51.2302 Dance therapy/therapist

- 51.2305 Music therapy/therapist
- 51.2306 Occupational therapy/therapist
- 51.2307 Orthotist/prosthetist
- 51.2308 Physical therapy/therapist
- 51.2309 Therapeutic recreation/recreational therapy
- 51.2310 Vocational rehabilitation counselling/counsellor
- 51.2311 Kinesiotherapy/kinesiotherapist
- 51.2312 Assistive/augmentative technology and rehabilitation engineering
- 51.2313 Animal-assisted therapy
- 51.2314 Rehabilitation science
- 51.2315 Drama therapy/therapist
- 51.2316 Horticulture therapy/therapist
- 51.2317 Play therapy/therapist
- 51.2399 Rehabilitation and therapeutic professions, other

51.26 Health aides/attendants/orderlies

- 51.2601 Health aide
- 51.2602 Home health aide/home attendant
- 51.2603 Medication aide
- 51.2604 Rehabilitation aide
- 51.2605 Physical therapy technician/aide
- 51.2699 Health aides/attendants/orderlies, other

51.27 Medical illustration and informatics

- 51.2703 Medical illustration/medical illustrator
- 51.2706 Medical informatics
- 51.2799 Medical illustration and informatics, other

51.31 Dietetics and clinical nutrition services

- 51.3101 Dietetics/dietitian (RD)
- 51.3102 Clinical nutrition/nutritionist
- 51.3103 Dietetic technician (DTR)
- 51.3104 Dietitian assistant
- 51.3199 Dietetics and clinical nutrition services, other

51.32 Health professions education, ethics, and humanities

- 51.3201 Bioethics/medical ethics
- 51.3202 Health professions education
- 51.3203 Nursing education
- 51.3204 Medical/health humanities
- 51.3205 History of medicine
- 51.3206 Arts in medicine/health
- 51.3299 Health professions education, ethics, and humanities, other

51.33 Alternative and complementary medicine and medical systems

51.3300 Alternative and complementary medicine and medical systems, general

51.3301 Acupuncture and oriental medicine

51.3302 Traditional Chinese medicine and Chinese herbology

51.3303 Naturopathic medicine/naturopathy (ND, NMD)

51.3304 Homeopathic medicine/homeopathy

51.3305 Ayurvedic medicine/Ayurveda

51.3306 Holistic/integrative health

51.3399 Alternative and complementary medicine and medical systems, other

51.34 Alternative and complementary medical support services

51.3401 Direct entry midwifery (LM, CPM)

51.3499 Alternative and complementary medical support services, other

51.35 Somatic bodywork and related therapeutic services

51.3501 Massage therapy/therapeutic massage

51.3502 Asian bodywork therapy

51.3503 Somatic bodywork

51.3599 Somatic bodywork and related therapeutic services, other

51.36 Movement and mind-body therapies

51.3601 Movement therapy

51.3602 Yoga teacher training/yoga therapy

51.3603 Hypnotherapy/hypnotherapist

51.3699 Movement and mind-body therapies, other

51.37 Energy-based and biologically-based therapies

51.3701 Aromatherapy

51.3702 Herbalism/herbalist

51.3703 Polarity therapy

51.3704 Reiki

51.3799 Energy-based and biologically-based therapies, other

51.38 Registered nursing, nursing administration, nursing research and clinical nursing

51.3801 Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN)

51.3802 Nursing administration (Cert., MSN, MS, MScN, MSc, PhD)

51.3803 Adult health nurse/nursing

51.3804 Nurse anesthetist

51.3805 Primary health care nurse/nursing and family practice nurse/nursing

51.3806 Maternal/child health and neonatal nurse/nursing

51.3807 Nurse midwife/nursing midwifery

51.3808 Nursing science (MS, MSc, PhD)

51.3809 Pediatric nurse/nursing

51.3810 Psychiatric/mental health nurse/nursing

51.3811 Public health/community nurse/nursing

51.3812 Perioperative/operating room and surgical nurse/nursing

- 51.3813 Clinical nurse specialist
- 51.3814 Critical care nurse/nursing
- 51.3815 Occupational and environmental health nurse/nursing
- 51.3816 Emergency room/trauma nurse/nursing
- 51.3818 Nursing practice
- 51.3819 Palliative care nurse/nursing
- 51.3820 Clinical nurse leader
- 51.3821 Geriatric nurse/nursing
- 51.3822 Women's health nurse/nursing
- 51.3823 Registered psychiatric nurse/nursing^{CAN}
- 51.3824 Forensic nursing
- 51.3899 Registered nursing, nursing administration, nursing research and clinical nursing, other

51.39 Practical nursing, vocational nursing and nursing assistants

- 51.3901 Licensed practical/vocational nurse training (LPN, LVN, RPN, Cert., Dipl., AAS)
- 51.3902 Nursing assistant/aide and patient care assistant/aide
- 51.3999 Practical nursing, vocational nursing and nursing assistants, other

51.99 Health professions and related programs, other

- 51.9980 Cannabis-related health professions and clinical sciences, other^{CAN}
- 51.9999 Health professions and related programs, other

52. Business, management, marketing and related support services

52.01 Business/commerce, general

- 52.0101 Business/commerce, general

52.02 Business administration, management and operations

- 52.0201 Business administration and management, general
- 52.0202 Purchasing, procurement/acquisitions and contracts management
- 52.0203 Logistics, materials, and supply chain management
- 52.0204 Office management and supervision
- 52.0205 Operations management and supervision
- 52.0206 Non-profit/public/organizational management
- 52.0207 Customer service management
- 52.0208 E-commerce/electronic commerce
- 52.0209 Transportation/mobility management
- 52.0210 Research and development management
- 52.0211 Project management
- 52.0212 Retail management
- 52.0213 Organizational leadership
- 52.0214 Research administration
- 52.0215 Risk management
- 52.0216 Science/technology management
- 52.0299 Business administration, management and operations, other

52.03 Accounting and related services

- 52.0301 Accounting
- 52.0302 Accounting technology/technician and bookkeeping
- 52.0303 Auditing
- 52.0304 Accounting and finance
- 52.0305 Accounting and business/management
- 52.0399 Accounting and related services, other

52.04 Business operations support and assistant services

- 52.0401 Administrative assistant and secretarial science, general
- 52.0402 Executive assistant/executive secretary
- 52.0406 Receptionist
- 52.0407 Business/office automation/technology/data entry
- 52.0408 General office occupations and clerical services
- 52.0409 Parts, warehousing and inventory management operations
- 52.0410 Traffic, customs and transportation clerk/technician
- 52.0411 Customer service support/call centre/teleservice operation
- 52.0499 Business operations support and assistant services, other

52.05 Business/corporate communications

- 52.0501 Business/corporate communications, general
- 52.0502 Grantsmanship
- 52.0599 Business/corporate communications, other

52.06 Business/managerial economics

- 52.0601 Business/managerial economics

52.07 Entrepreneurial and small business operations

- 52.0701 Entrepreneurship/entrepreneurial studies
- 52.0702 Franchising and franchise operations
- 52.0703 Small business administration/management
- 52.0704 Social entrepreneurship
- 52.0799 Entrepreneurial and small business operations, other

52.08 Finance and financial management services

- 52.0801 Finance, general
- 52.0803 Banking and financial support services
- 52.0804 Financial planning and services
- 52.0806 International finance
- 52.0807 Investments and securities
- 52.0808 Public finance
- 52.0809 Credit management
- 52.0810 Financial risk management
- 52.0899 Finance and financial management services, other

52.09 Hospitality administration/management

52.0901 Hospitality administration/management, general

52.0903 Tourism and travel services management

52.0904 Hotel/motel administration/management

52.0905 Restaurant/food services management

52.0906 Resort management

52.0907 Meeting and event planning

52.0908 Casino management

52.0909 Hotel, motel, and restaurant management

52.0910 Brewery/brewpub management

52.0999 Hospitality administration/management, other

52.10 Human resources management and services

52.1001 Human resources management/personnel administration, general

52.1002 Labour and industrial relations

52.1003 Organizational behaviour studies

52.1004 Labour studies

52.1005 Human resources development

52.1006 Executive/career coaching

52.1099 Human resources management and services, other

52.11 International business/trade/commerce

52.1101 International business/trade/commerce

52.12 Management information systems and services

52.1201 Management information systems, general

52.1206 Information resources management

52.1207 Knowledge management

52.1299 Management information systems and services, other

52.13 Management sciences and quantitative methods

52.1301 Management science

52.1302 Business statistics

52.1304 Actuarial science

52.1399 Management sciences and quantitative methods, other

52.14 Marketing

52.1401 Marketing/marketing management, general

52.1402 Marketing research

52.1403 International marketing

52.1404 Digital marketing

52.1499 Marketing, other

52.15 Real estate

52.1501 Real estate

52.16 Taxation

52.1601 Taxation

52.17 Insurance

52.1701 Insurance

52.18 General sales, merchandising and related marketing operations

52.1801 Sales, distribution and marketing operations, general

52.1802 Merchandising and buying operations

52.1803 Retailing and retail operations

52.1804 Selling skills and sales operations

52.1880 Cannabis-related selling skills and sales operations

52.1899 General sales, merchandising and related marketing operations, other

52.19 Specialized sales, merchandising and marketing operations

52.1901 Auctioneering

52.1902 Fashion merchandising

52.1903 Fashion modelling

52.1904 Apparel and accessories marketing operations

52.1905 Tourism and travel services marketing operations

52.1906 Tourism promotion operations

52.1907 Vehicle and vehicle parts and accessories marketing operations

52.1908 Business and personal/financial services marketing operations

52.1909 Special products marketing operations

52.1910 Hospitality and recreation marketing operations

52.1980 Cannabis-related marketing and marketing operations^{CAN}

52.1999 Specialized sales, merchandising and marketing operations, other

52.20 Construction management

52.2001 Construction management, general

52.2002 Construction project management

52.2099 Construction management, other

52.21 Telecommunications management

52.2101 Telecommunications management

52.99 Business, management, marketing and related support services, other

52.9999 Business, management, marketing and related support services, other

53. High school/secondary diploma and certificate programs

53.01 High school/secondary diploma programs

53.0101 Regular/general high school/secondary diploma programs

53.0102 College/university preparatory programs

53.0103 Vocational high school and secondary business/vocational-industrial/occupational diploma programs

53.0104 Honours/regents high school/secondary diploma programs

53.0105 Adult high school/secondary diploma programs

53.0199 High school/secondary diploma programs, other

53.02 High school/secondary certificate programs

53.0201 High school equivalency/GED certificate programs

53.0202 High school certificate of competence programs

53.0203 Certificate of IEP completion programs

53.0299 High school/secondary certificate programs, other

54. History

54.01 History

54.0101 History, general

54.0102 American history (United States)

54.0103 European history

54.0104 History and philosophy of science and technology

54.0105 Public/applied history

54.0106 Asian history

54.0107 Canadian history

54.0108 Military history

54.0199 History, other

55. French language and literature/letters^{CAN}

55.01 French language and literature, general^{CAN}

55.0101 French language and literature, general^{CAN}

55.13 French rhetoric and composition/writing studies^{CAN}

55.1301 French writing, general^{CAN}

55.1302 French creative writing^{CAN}

55.1303 French professional, technical, business, and scientific writing^{CAN}

55.1304 French rhetoric and composition^{CAN}

55.1399 French rhetoric and composition/writing studies, other^{CAN}

55.14 French literature^{CAN}

55.1401 French literature, general^{CAN}

55.1403 Canadian literature, French^{CAN}

55.1404 Literature of France and the French community, French^{CAN}

55.1405 Children's and adolescent literature, French^{CAN}

55.1499 French literature, other^{CAN}

55.99 French language and literature/letters, other^{CAN}

55.9999 French language and literature/letters, other^{CAN}

60. Health professions residency/fellowship programs

60.01 Dental residency/fellowship programs

60.0101 Oral and maxillofacial surgery residency programs

60.0102 Dental public health residency programs

60.0103 Endodontics residency programs

60.0104 Oral and maxillofacial pathology residency programs

- 60.0105 Orthodontics residency programs
- 60.0106 Pediatric dentistry residency programs
- 60.0107 Periodontology residency programs
- 60.0108 Prosthodontics residency programs
- 60.0109 Oral and maxillofacial radiology residency programs
- 60.0110 Implantology fellowship programs
- 60.0199 Dental residency/fellowship programs, other

60.03 Veterinary residency/fellowship programs

- 60.0301 Veterinary anesthesiology residency programs
- 60.0302 Veterinary dentistry residency programs
- 60.0303 Veterinary dermatology residency programs
- 60.0304 Veterinary emergency and critical care medicine residency programs
- 60.0305 Veterinary internal medicine residency programs
- 60.0306 Laboratory animal medicine residency programs
- 60.0307 Veterinary microbiology residency programs
- 60.0308 Veterinary nutrition residency programs
- 60.0309 Veterinary ophthalmology residency programs
- 60.0310 Veterinary pathology residency programs
- 60.0311 Veterinary practice residency programs
- 60.0312 Veterinary preventive medicine residency programs
- 60.0313 Veterinary radiology residency programs
- 60.0314 Veterinary surgery residency programs
- 60.0315 Theriogenology residency programs
- 60.0316 Veterinary toxicology residency programs
- 60.0317 Zoological medicine residency programs
- 60.0318 Poultry veterinarian residency programs
- 60.0319 Veterinary behaviourist residency programs
- 60.0320 Veterinary clinical pharmacology residency programs
- 60.0399 Veterinary residency/fellowship programs, other

60.07 Nurse practitioner residency/fellowship programs

- 60.0701 Nurse practitioner residency/fellowship programs, general
- 60.0702 Combined nurse practitioner residency/fellowship programs
- 60.0703 Acute care nurse practitioner residency/fellowship programs
- 60.0704 Adult/gerontology acute care nurse practitioner residency/fellowship programs
- 60.0705 Adult/gerontology critical care nurse practitioner residency/fellowship programs
- 60.0706 Cardiology/cardiovascular nurse practitioner residency/fellowship programs
- 60.0707 Clinical informatics nurse practitioner residency/fellowship programs
- 60.0708 Dermatology nurse practitioner residency/fellowship programs
- 60.0709 Developmental and behavioural pediatrics nurse practitioner residency/fellowship programs
- 60.0710 Diabetes nurse practitioner residency/fellowship programs

60.0711 Emergency medicine nurse practitioner residency/fellowship programs
60.0712 Endocrinology nurse practitioner residency/fellowship programs
60.0713 Family medicine nurse practitioner residency/fellowship programs
60.0714 Gastroenterology and hepatology nurse practitioner residency/fellowship programs
60.0715 Gastroenterology nurse practitioner residency/fellowship programs
60.0716 Genetics nurse practitioner residency/fellowship programs
60.0717 Gerontology nurse practitioner residency/fellowship programs
60.0718 Global health nurse practitioner residency/fellowship programs
60.0719 Hematology-oncology nurse practitioner residency/fellowship programs
60.0720 Hepatology nurse practitioner residency/fellowship programs
60.0721 Home-based primary care nurse practitioner residency/fellowship programs
60.0722 Hospice and palliative medicine nurse practitioner residency/fellowship programs
60.0723 Hospital medicine nurse practitioner residency/fellowship programs
60.0724 Infectious diseases nurse practitioner residency/fellowship programs
60.0725 Neonatal nurse practitioner residency/fellowship programs
60.0726 Nephrology nurse practitioner residency/fellowship programs
60.0727 Neurology nurse practitioner residency/fellowship programs
60.0728 Neuroscience nurse practitioner residency/fellowship programs
60.0729 Obstetrics and gynecology nurse practitioner residency/fellowship programs
60.0730 Occupational health nurse practitioner residency/fellowship programs
60.0731 Orthopedic nurse practitioner residency/fellowship programs
60.0732 Orthopedic surgery nurse practitioner residency/fellowship programs
60.0733 Pain management nurse practitioner residency/fellowship programs
60.0734 Palliative care nurse practitioner residency/fellowship programs
60.0735 Pediatric hematology-oncology nurse practitioner residency/fellowship programs
60.0736 Pediatric nurse practitioner residency/fellowship programs
60.0737 Pediatric rehabilitation nurse practitioner residency/fellowship programs
60.0738 Psychiatric/mental health nurse practitioner residency/fellowship programs
60.0739 Public health/community health nurse practitioner residency/fellowship programs
60.0740 Pulmonary nurse practitioner residency/fellowship programs
60.0741 Rheumatology nurse practitioner residency/fellowship programs
60.0742 Rural health nurse practitioner residency/fellowship programs
60.0743 Sleep medicine nurse practitioner residency/fellowship programs
60.0744 Surgical and critical care nurse practitioner residency/fellowship programs
60.0745 Surgical wound and reconstruction nurse practitioner residency/fellowship programs
60.0746 Transplantation nurse practitioner residency/fellowship programs
60.0747 Trauma and critical care nurse practitioner residency/fellowship programs
60.0748 Urgent care nurse practitioner residency/fellowship programs
60.0749 Urology nurse practitioner residency/fellowship programs
60.0750 Women's health nurse practitioner residency/fellowship programs
60.0751 Wound care nurse practitioner residency/fellowship programs

60.0799 Nurse practitioner residency/fellowship programs, other

60.08 Pharmacy residency/fellowship programs

- 60.0801 Pharmacy residency/fellowship programs, general
- 60.0802 Combined pharmacy residency/fellowship programs
- 60.0803 Ambulatory care pharmacy residency/fellowship programs
- 60.0804 Cardiology pharmacy residency/fellowship programs
- 60.0805 Clinical pharmacogenomics pharmacy residency/fellowship programs
- 60.0806 Community/community-based pharmacy residency/fellowship programs
- 60.0807 Corporate pharmacy leadership residency/fellowship programs
- 60.0808 Critical care pharmacy residency/fellowship programs
- 60.0809 Drug information pharmacy residency/fellowship programs
- 60.0810 Emergency medicine pharmacy residency/fellowship programs
- 60.0811 Family medicine pharmacy residency/fellowship programs
- 60.0812 Geriatric pharmacy residency/fellowship programs
- 60.0813 Health system medication management pharmacy residency/fellowship programs
- 60.0814 Health system pharmacy administration and leadership residency/fellowship programs
- 60.0815 Infectious diseases pharmacy residency/fellowship programs
- 60.0816 Internal medicine pharmacy residency/fellowship programs
- 60.0817 Investigational drugs and research pharmacy residency/fellowship programs
- 60.0818 Managed care pharmacy residency/fellowship programs
- 60.0819 Medication systems and operations pharmacy residency/fellowship programs
- 60.0820 Medication-use safety pharmacy residency/fellowship programs
- 60.0821 Neonatal pharmacy residency/fellowship programs
- 60.0822 Nephrology pharmacy residency/fellowship programs
- 60.0823 Neurology pharmacy residency/fellowship programs
- 60.0824 Nuclear pharmacy residency/fellowship programs
- 60.0825 Nutrition support pharmacy residency/fellowship programs
- 60.0826 Oncology pharmacy residency/fellowship programs
- 60.0827 Palliative care/pain management pharmacy residency/fellowship programs
- 60.0828 Pediatric pharmacy residency/fellowship programs
- 60.0829 Pharmacotherapy pharmacy residency/fellowship programs
- 60.0830 Pharmacy informatics pharmacy residency/fellowship programs
- 60.0831 Psychiatric pharmacy residency/fellowship programs
- 60.0832 Transplantation pharmacy residency/fellowship programs
- 60.0899 Pharmacy residency/fellowship programs, other

60.09 Physician assistant residency/fellowship programs

- 60.0901 Physician assistant residency/fellowship programs, general
- 60.0902 Combined physician assistant residency/fellowship programs
- 60.0903 Acute care medicine physician assistant residency/fellowship programs
- 60.0904 Acute care surgery physician assistant residency/fellowship programs
- 60.0905 Cardiology physician assistant residency/fellowship programs

60.0906 Cardiothoracic surgery physician assistant residency/fellowship programs
 60.0907 Critical care physician assistant residency/fellowship programs
 60.0908 Critical care and trauma surgery physician assistant residency/fellowship programs
 60.0909 Emergency medicine physician assistant residency/fellowship programs
 60.0910 ENT surgery physician assistant residency/fellowship programs
 60.0911 Family medicine physician assistant residency/fellowship programs
 60.0912 Geriatrics physician assistant residency/fellowship programs
 60.0913 Hematology-oncology physician assistant residency/fellowship programs
 60.0914 Hepatobiliary surgery physician assistant residency/fellowship programs
 60.0915 Hospitalist physician assistant residency/fellowship programs
 60.0916 Neurosurgery physician assistant residency/fellowship programs
 60.0917 Orthopedic surgery physician assistant residency/fellowship programs
 60.0918 Pediatric surgery physician assistant residency/fellowship programs
 60.0919 Transplant surgery physician assistant residency/fellowship programs
 60.0920 Urology physician assistant residency/fellowship programs
 60.0999 Physician assistant residency/fellowship programs, other

60.99 Health professions residency/fellowship programs, other

60.9999 Health professions residency/fellowship programs, other

61. Medical residency/fellowship programs

61.01 Combined medical residency/fellowship programs

61.0101 Combined medical residency/fellowship programs, general
 61.0102 Diagnostic radiology/nuclear medicine combined specialty programs
 61.0103 Emergency medicine/anesthesiology combined specialty programs
 61.0104 Family medicine/emergency medicine combined specialty programs
 61.0105 Family medicine/osteopathic neuromusculoskeletal medicine combined specialty programs
 61.0106 Family medicine/preventive medicine combined specialty programs
 61.0107 Family medicine/psychiatry combined specialty programs
 61.0108 Internal medicine/anesthesiology combined specialty programs
 61.0109 Internal medicine/dermatology combined specialty programs
 61.0110 Internal medicine/emergency medicine combined specialty programs
 61.0111 Internal medicine/emergency medicine/critical care medicine combined specialty programs
 61.0112 Internal medicine/family medicine combined specialty programs
 61.0113 Internal medicine/medical genetics and genomics combined specialty programs
 61.0114 Internal medicine/neurology combined specialty programs
 61.0115 Internal medicine/pediatrics combined specialty programs
 61.0116 Internal medicine/preventive medicine combined specialty programs
 61.0117 Internal medicine/psychiatry combined specialty programs
 61.0118 Medical genetics and genomics/maternal-fetal medicine combined specialty programs
 61.0119 Pediatrics/anesthesiology combined specialty programs

- 61.0120 Pediatrics/emergency medicine combined specialty programs
- 61.0121 Pediatrics/medical genetics and genomics combined specialty programs
- 61.0122 Pediatrics/physical medicine and rehabilitation combined specialty programs
- 61.0123 Pediatrics/psychology/child and adolescent psychology combined specialty programs
- 61.0124 Psychiatry/neurology combined specialty programs
- 61.0125 Reproductive endocrinology and infertility/medical genetics and genomics combined specialty programs
- 61.0199 Combined medical residency/fellowship programs, other

61.02 Multiple-pathway medical fellowship programs

- 61.0202 Critical care medicine fellowship programs
- 61.0203 Geriatric medicine fellowship programs
- 61.0204 Health policy fellowship programs
- 61.0205 Hospice and palliative medicine fellowship programs
- 61.0206 Integrative medicine fellowship programs
- 61.0207 Medical education fellowship programs
- 61.0208 Medical toxicology fellowship programs
- 61.0209 Neuromuscular medicine fellowship programs
- 61.0210 Pain medicine fellowship programs
- 61.0211 Healthcare simulation fellowship programs
- 61.0212 Sleep medicine fellowship programs
- 61.0213 Sports medicine fellowship programs
- 61.0214 Surgery of the hand fellowship programs
- 61.0215 Telemedicine fellowship programs
- 61.0216 Undersea and hyperbaric medicine fellowship programs
- 61.0217 Wilderness medicine fellowship programs
- 61.0218 Women's health fellowship programs
- 61.0299 Multiple-pathway medical fellowship programs, other

61.03 Allergy and immunology residency/fellowship programs

- 61.0301 Allergy and immunology fellowship programs
- 61.0399 Allergy and immunology residency/fellowship programs, other

61.04 Anesthesiology residency/fellowship programs

- 61.0401 Anesthesiology residency programs
- 61.0499 Anesthesiology residency/fellowship programs, other

61.05 Dermatology residency/fellowship programs

- 61.0501 Dermatology residency programs
- 61.0502 Dermatopathology fellowship programs
- 61.0503 Pediatric dermatology fellowship programs
- 61.0599 Dermatology residency/fellowship programs, other

61.06 Emergency medicine residency/fellowship programs

- 61.0601 Emergency medicine residency programs
- 61.0602 Disaster medicine fellowship programs

- 61.0603 Emergency medical services fellowship programs
- 61.0699 Emergency medicine residency/fellowship programs, other

61.07 Family medicine residency/fellowship programs

- 61.0701 Family medicine residency programs
- 61.0799 Family medicine residency/fellowship programs, other

61.08 Internal medicine residency/fellowship programs

- 61.0801 Internal medicine residency programs
- 61.0804 Cardiovascular disease fellowship programs
- 61.0805 Clinical cardiac electrophysiology fellowship programs
- 61.0806 Endocrinology, diabetes and metabolism fellowship programs
- 61.0807 Gastroenterology fellowship programs
- 61.0808 Hematology fellowship programs
- 61.0809 Hematology-oncology fellowship programs
- 61.0810 Infectious disease fellowship programs
- 61.0811 Interventional cardiology fellowship programs
- 61.0812 Nephrology fellowship programs
- 61.0813 Medical oncology fellowship programs
- 61.0814 Pulmonary disease fellowship programs
- 61.0816 Rheumatology fellowship programs
- 61.0818 Transplant hepatology fellowship programs
- 61.0899 Internal medicine residency/fellowship programs, other

61.09 Medical genetics and genomics residency/fellowship programs

- 61.0901 Clinical biochemical genetics residency programs
- 61.0902 Clinical genetics and genomics residency programs
- 61.0903 Laboratory genetics and genomics residency programs
- 61.0904 Medical biochemical genetics residency programs
- 61.0999 Medical genetics and genomics residency/fellowship programs, other

61.10 Neurological surgery residency/fellowship programs

- 61.1001 Neurological surgery residency programs
- 61.1099 Neurological surgery residency/fellowship programs, other

61.11 Neurology residency/fellowship programs

- 61.1101 Neurology residency programs
- 61.1102 Child neurology residency programs
- 61.1103 Clinical neurophysiology fellowship programs
- 61.1104 Epilepsy fellowship programs
- 61.1105 Headache medicine fellowship programs
- 61.1106 Neurodevelopmental disabilities fellowship programs
- 61.1107 Vascular neurology fellowship programs
- 61.1199 Neurology residency/fellowship programs, other

61.12 Nuclear medicine residency/fellowship programs

- 61.1201 Nuclear medicine residency programs
- 61.1299 Nuclear medicine residency/fellowship programs, other

61.13 Obstetrics and gynecology residency/fellowship programs

- 61.1301 Obstetrics and gynecology residency programs
- 61.1302 Gynecologic oncology fellowship programs
- 61.1303 Maternal and fetal medicine fellowship programs
- 61.1304 Reproductive endocrinology/infertility fellowship programs
- 61.1399 Obstetrics and gynecology residency/fellowship programs, other

61.14 Ophthalmology residency/fellowship programs

- 61.1401 Ophthalmology residency programs
- 61.1499 Ophthalmology residency/fellowship programs, other

61.15 Orthopedic surgery residency/fellowship programs

- 61.1501 Orthopedic surgery residency programs
- 61.1502 Musculoskeletal oncology fellowship programs
- 61.1503 Orthopaedic sports medicine fellowship programs
- 61.1504 Orthopedic surgery of the spine fellowship programs
- 61.1505 Pediatric orthopedics fellowship programs
- 61.1599 Orthopedic surgery residency/fellowship programs, other

61.16 Osteopathic medicine residency/fellowship programs

- 61.1601 Osteopathic neuromusculoskeletal medicine residency programs
- 61.1699 Osteopathic medicine residency/fellowship programs, other

61.17 Otolaryngology residency/fellowship programs

- 61.1701 Otolaryngology residency programs
- 61.1702 Neurotology fellowship programs
- 61.1703 Pediatric otolaryngology fellowship programs
- 61.1799 Otolaryngology residency/fellowship programs, other

61.18 Pathology residency/fellowship programs

- 61.1801 Combined anatomic and clinical pathology residency programs
- 61.1802 Anatomical pathology residency programs
- 61.1803 Clinical pathology residency programs
- 61.1804 Blood banking/transfusion medicine fellowship programs
- 61.1805 Chemical pathology fellowship programs
- 61.1806 Cytopathology fellowship programs
- 61.1807 Forensic pathology fellowship programs
- 61.1808 Hematological pathology fellowship programs
- 61.1809 Immunopathology fellowship programs
- 61.1810 Laboratory medicine fellowship programs
- 61.1811 Medical microbiology fellowship programs
- 61.1812 Molecular genetic pathology fellowship programs
- 61.1813 Neuropathology fellowship programs

- 61.1814 Pediatric pathology fellowship programs
- 61.1815 Radioisotopic pathology fellowship programs
- 61.1899 Pathology residency/fellowship programs, other

61.19 Pediatrics residency/fellowship programs

- 61.1901 Pediatrics residency programs
- 61.1902 Adolescent medicine fellowship programs
- 61.1903 Child abuse pediatrics fellowship programs
- 61.1904 Developmental-behavioural pediatrics fellowship programs
- 61.1905 Neonatal-perinatal medicine fellowship programs
- 61.1906 Pediatric cardiology fellowship programs
- 61.1907 Pediatric critical care medicine fellowship programs
- 61.1908 Pediatric emergency medicine fellowship programs
- 61.1909 Pediatric endocrinology fellowship programs
- 61.1910 Pediatric gastroenterology fellowship programs
- 61.1911 Pediatric hematology-oncology fellowship programs
- 61.1912 Pediatric infectious diseases fellowship programs
- 61.1913 Pediatric nephrology fellowship programs
- 61.1914 Pediatric pulmonology fellowship programs
- 61.1915 Pediatric rheumatology fellowship programs
- 61.1917 Pediatric transplant hepatology fellowship programs
- 61.1999 Pediatrics residency/fellowship programs, other

61.20 Physical medicine and rehabilitation residency/fellowship programs

- 61.2001 Physical medicine and rehabilitation residency programs
- 61.2002 Spinal cord injury medicine fellowship programs
- 61.2003 Pediatric rehabilitation medicine fellowship programs
- 61.2099 Physical medicine and rehabilitation residency/fellowship programs, other

61.21 Plastic surgery residency/fellowship programs

- 61.2101 Plastic surgery residency programs
- 61.2102 Integrated plastic surgery residency programs
- 61.2103 Plastic surgery within the head and neck fellowship programs
- 61.2199 Plastic surgery residency/fellowship programs, other

61.22 Podiatric medicine residency/fellowship programs

- 61.2201 Podiatric medicine and surgery residency programs
- 61.2299 Podiatric medicine residency/fellowship programs, other

61.23 Preventive medicine residency/fellowship programs

- 61.2301 Public health and general preventive medicine residency programs
- 61.2302 Aerospace medicine residency programs
- 61.2303 Occupational medicine residency programs
- 61.2399 Preventive medicine residency/fellowship programs, other

61.24 Psychiatry residency/fellowship programs

- 61.2401 Psychiatry residency programs
- 61.2402 Addiction psychiatry fellowship programs
- 61.2403 Child and adolescent psychiatry fellowship programs
- 61.2404 Consultation-liaison psychiatry fellowship programs
- 61.2405 Forensic psychiatry fellowship programs
- 61.2406 Geriatric psychiatry fellowship programs
- 61.2499 Psychiatry residency/fellowship programs, other

61.25 Radiation oncology residency/fellowship programs

- 61.2501 Radiation oncology residency programs
- 61.2599 Radiation oncology residency/fellowship programs, other

61.26 Radiology residency/fellowship programs

- 61.2601 Diagnostic radiology residency programs
- 61.2602 Integrated interventional radiology residency programs
- 61.2603 Abdominal radiology fellowship programs
- 61.2604 Diagnostic radiologic physics residency programs
- 61.2605 Medical nuclear physics residency programs
- 61.2606 Musculoskeletal radiology fellowship programs
- 61.2607 Neuroradiology fellowship programs
- 61.2608 Nuclear radiology fellowship programs
- 61.2609 Pediatric radiology fellowship programs
- 61.2610 Radiologic physics residency programs
- 61.2611 Therapeutic radiologic physics residency programs
- 61.2612 Vascular and interventional radiology fellowship programs
- 61.2699 Radiology residency/fellowship programs, other

61.27 Surgery residency/fellowship programs

- 61.2701 General surgery residency programs
- 61.2702 Colon and rectal surgery residency programs
- 61.2703 Complex general surgical oncology fellowship programs
- 61.2704 Congenital cardiac surgery fellowship programs
- 61.2705 Pediatric surgery fellowship programs
- 61.2706 Surgical critical care fellowship programs
- 61.2707 Thoracic surgery fellowship programs
- 61.2708 Vascular surgery fellowship programs
- 61.2799 Surgery residency/fellowship programs, other

61.28 Urology residency/fellowship programs

- 61.2801 Urology residency programs
- 61.2802 Pediatric urology fellowship programs
- 61.2899 Urology residency/fellowship programs, other

61.99 Medical residency/fellowship programs, other

- 61.9999 Medical residency/fellowship programs, other

Classification descriptions

01. Agricultural and veterinary sciences/services/operations and related fields

This series comprises instructional programs that focus on agriculture, animal, plant, veterinary and related sciences and that prepare individuals to apply specific knowledge, methods, and techniques to the management and performance of agricultural and veterinary operations.

01.00 Agriculture, general

This subseries comprises instructional program class 01.0000.

01.0000 Agriculture, general

This instructional program class comprises any program that focuses on the general principles and practice of agricultural research and production and that prepares individuals to apply this knowledge to the solution of practical agricultural problems. These programs include courses in basic animal, plant, and soil science; animal husbandry and plant cultivation; soil conservation; and agricultural operations such as farming, ranching, and agricultural business.

Illustrative example(s)

- agricultural science
- agricultural technology
- agriculture

Exclusion(s)

- agricultural engineering (See 14.0301-Agricultural engineering)
- international agriculture (See 01.0701-International agriculture)

01.01 Agricultural business and management

This subseries comprises instructional program classes 01.0101 to 01.0199.

01.0101 Agricultural business and management, general

This instructional program class comprises any general program that focuses on modern business and economic principles involved in the organization, operation, and management of agricultural enterprises.

Illustrative example(s)

- agricultural business
- agricultural business and management
- agricultural business management
- agricultural management

Exclusion(s)

- agribusiness (See 01.0102-Agribusiness/agricultural business operations)
- agricultural business technology (See 01.0106-Agricultural business technology/technician)
- agricultural production (See 01.0301-Agricultural production operations, general)
- business administration (See 52.0201-Business administration and management, general)
- farm management (See 01.0104-Farm/farm and ranch management)
- small business management (See 52.0703-Small business administration/management)

01.0102 Agribusiness/agricultural business operations

This instructional program class comprises any program that prepares individuals to manage agricultural businesses and agriculturally related operations within diversified corporations. These programs include courses in agriculture, agricultural specialization, business management, accounting, finance, marketing, planning, human resources management, and other managerial responsibilities.

Illustrative example(s)

- agribusiness
- agribusiness operations
- agricultural business operations
- agricultural food business management
- agricultural systems management
- food and agribusiness management

Exclusion(s)

- agricultural business management (See 01.0101-Agricultural business and management, general)
- agricultural business technology (See 01.0106-Agricultural business technology/technician)
- agricultural production (See 01.0301-Agricultural production operations, general)
- operations management (See 52.0205-Operations management and supervision)
- small business management (See 52.0703-Small business administration/management)

01.0103 Agricultural economics

This instructional program class comprises any program that focuses on the application of economics to the analysis of resource allocation, productivity, investment, and trends in the agricultural sector, both domestically and internationally. These programs include courses in economics and related subfields as well as applicable agricultural fields.

Illustrative example(s)

- agricultural economics
- agroeconomics
- rural economics
- rural economy

Exclusion(s)

- agricultural finance (See 01.0199-Agricultural business and management, other)
- economics (See 45.0601-Economics, general)
- international economics (See 45.0605-International economics)
- natural resource economics (See 03.0204-Environmental/natural resource economics)
- social economics (See 45.0699-Economics, other)

01.0104 Farm/farm and ranch management

This instructional program class comprises any program that prepares individuals to manage farms, ranches, and similar enterprises. These programs include courses in applicable agricultural specialization, business management, accounting, taxation, capitalization, purchasing, government programs and regulations, operational planning and budgeting, contracts and negotiation, and estate planning.

Illustrative example(s)

- farm and ranch management
- farm management
- ranch management

Exclusion(s)

- agricultural business management (See 01.0101-Agricultural business and management, general)
- agricultural business technology (See 01.0106-Agricultural business technology/technician)
- agricultural production (See 01.0301-Agricultural production operations, general)
- agricultural systems management (See 01.0102-Agribusiness/agricultural business operations)
- business administration (See 52.0201-Business administration and management, general)
- small business management (See 52.0703-Small business administration/management)

01.0105 Agricultural/farm supplies retailing and wholesaling

This instructional program class comprises any program that prepares individuals to sell agricultural products and supplies, provide support services to agricultural enterprises, and purchase and market agricultural products. These programs include courses in basic business management, marketing, retailing and wholesaling operations, and applicable principles of agriculture and agricultural operations.

Illustrative example(s)

- agricultural supplies retailing and wholesaling
- agricultural supplies sales
- farm supplies retailing and wholesaling

Exclusion(s)

- auctioneering (See 52.1901-Auctioneering)
- procurement management (See 52.0202-Purchasing, procurement/acquisitions and contracts management)
- retail sales (See 52.1803-Retailing and retail operations)

01.0106 Agricultural business technology/technician

This instructional program class comprises any program that prepares individuals to perform specialized support functions related to agricultural business offices and operations and to operate agricultural office equipment, software, and information systems. These programs include courses in basic agricultural business principles, office management, equipment operation, standard software, and database management.

Illustrative example(s)

- agricultural business technology

Exclusion(s)

- agribusiness (See 01.0102-Agribusiness/agricultural business operations)
- agricultural business management (See 01.0101-Agricultural business and management, general)
- business administration (See 52.0201-Business administration and management, general)
- farm management (See 01.0104-Farm/farm and ranch management)
- office management (See 52.0204-Office management and supervision)

01.0199 Agricultural business and management, other

This instructional program class comprises any program not listed above that relates to Agricultural business and management.

Illustrative example(s)

- agricultural finance
- other agricultural business and management

Exclusion(s)

- agricultural business management (See 01.0101-Agricultural business and management, general)
- agricultural systems management (See 01.0102-Agribusiness/agricultural business operations)

01.02 Agricultural mechanization

This subseries comprises instructional program classes 01.0201 to 01.0299.

01.0201 Agricultural mechanization, general

This instructional program class comprises any program that generally prepares individuals to sell, select, and service agricultural or agribusiness technical equipment, and facilities, including computers, specialized software, power units, machinery, equipment structures, and utilities. These programs include courses in agricultural

power systems; planning and selecting materials for the construction of support facilities; mechanical practices associated with irrigation and water conservation; erosion control; and agricultural data processing systems.

Illustrative example(s)

- agricultural mechanization

Exclusion(s)

- agricultural engineering (See 14.0301-Agricultural engineering)
- agricultural mechanics (See 01.0205-Agricultural mechanics and equipment/machine technology/technician)
- agricultural power machinery operation (See 01.0204-Agricultural power machinery operation)
- agricultural technology (See 01.0000-Agriculture, general)
- industrial mechanics (See 47.0303-Industrial mechanics and maintenance technology/technician)

01.0204 Agricultural power machinery operation

This instructional program class comprises any program that prepares individuals to operate specialized farm, ranch, and agribusiness power equipment of a stationary, mobile, and/or hand-operated nature. These programs include courses in operating specialized equipment such as terrestrial and airborne crop spraying equipment; tractors and hauling equipment; planting and harvesting equipment; cutting equipment; power sources and systems for silos, irrigation, pumping, and applications such as dairy, feeding and shearing operations; processing equipment; and applicable electrical, mechanical, and safety principles.

Illustrative example(s)

- agricultural machinery operator
- agricultural power machinery operation
- farm equipment operator

Exclusion(s)

- heavy equipment operation (See 49.0202-Construction/heavy equipment/earthmoving equipment operation)

01.0205 Agricultural mechanics and equipment/machine technology/technician

This instructional program class comprises any program that prepares individuals to maintain and repair specialized farm, ranch, and agribusiness power equipment and vehicles. These programs include courses in the principles of diesel, combustion, electrical, steam, hydraulic, and mechanical systems and their application to the maintenance of terrestrial and airborne crop spraying equipment; tractors and hauling equipment; planting and harvesting equipment; cutting equipment; power sources and systems for silos; irrigation and pumping equipment; dairy, feeding and shearing operations; and processing systems.

Illustrative example(s)

- agricultural equipment mechanic
- agricultural equipment technician
- agricultural machinery technician
- agricultural mechanics
- farm equipment mechanic
- farm equipment service technician
- farm equipment technician
- farm machinery mechanic
- farm machinery repair
- farm machinery technician

Exclusion(s)

- agricultural engineering (See 14.0301-Agricultural engineering)

- agricultural mechanization (See 01.0201-Agricultural mechanization, general)
- agricultural power machinery operation (See 01.0204-Agricultural power machinery operation)
- agricultural technology (See 01.0000-Agriculture, general)
- heavy equipment mechanic (See 47.0302-Heavy equipment maintenance technology/technician)
- industrial mechanics (See 47.0303-Industrial mechanics and maintenance technology/technician)

01.0207 Irrigation management technology/technician

This instructional program class comprises any program that prepares individuals for employment in the field of agricultural technology and irrigation. These programs include courses in irrigation and drainage methodologies, pumping and delivery systems, system design and evaluation, and principles of installation and repair of irrigation systems.

Illustrative example(s)

- agricultural irrigation
- commercial irrigation
- horticultural irrigation
- irrigation
- irrigation and drainage
- irrigation management
- irrigation management technician
- irrigation management technology
- irrigation technician
- irrigation technology

Exclusion(s)

- colonic irrigation (See 51.3503-Somatic bodywork)
- farm drainage (See 01.1299-Soil sciences, other)
- irrigation engineering (See 14.0805-Water resources engineering)

01.0299 Agricultural mechanization, other

This instructional program class comprises any program not listed above that relates to Agricultural mechanization.

Illustrative example(s)

- other agricultural mechanization

Exclusion(s)

- agricultural irrigation (See 01.0207-Irrigation management technology/technician)

01.03 Agricultural production operations

This subseries comprises instructional program classes 01.0301 to 01.0399.

01.0301 Agricultural production operations, general

This instructional program class comprises any program that focuses on the general planning, economics, and use of facilities, natural resources, equipment, labour, and capital to produce plant and animal products, and that prepares individuals for work in farming, ranching, and agribusiness.

Illustrative example(s)

- agricultural production
- agricultural production management
- agricultural production operations
- farm business

- farm business management
- farming

Exclusion(s)

- agribusiness (See 01.0102-Agribusiness/agricultural business operations)
- agricultural business management (See 01.0101-Agricultural business and management, general)
- animal husbandry (See 01.0302-Animal/livestock husbandry and production)
- crop production (See 01.0304-Crop production)
- dairy production (See 01.0306-Dairy husbandry and production)
- farm management (See 01.0104-Farm/farm and ranch management)
- horticulture operations (See 01.0601-Applied horticulture/horticulture operations, general)
- organic farming (See 01.0308-Agroecology and sustainable agriculture)
- production management (See 52.0205-Operations management and supervision)
- viticulture (See 01.1004-Viticulture and enology)

01.0302 Animal/livestock husbandry and production

This instructional program class comprises any program that prepares individuals to select, breed, care for, process, and market livestock and small farm animals. These programs include courses in basic animal science, animal nutrition, and animal health as applied to various species and breeds; design and operation of housing, feeding, and processing facilities; and related issues of safety, applicable regulations, logistics, and supply.

Illustrative example(s)

- animal husbandry
- animal production
- animal production technology
- beef production
- livestock husbandry
- livestock production
- poultry husbandry
- swine production
- swine technician
- swine technology

Exclusion(s)

- animal breeding (See 01.0902-Agricultural animal breeding)
- animal health (See 01.0903-Animal health)
- animal sciences (See 01.0901-Animal sciences, general)
- dairy production (See 01.0306-Dairy husbandry and production)
- livestock management (See 01.0906-Livestock management)
- organic farming (See 01.0308-Agroecology and sustainable agriculture)

01.0303 Aquaculture

This instructional program class comprises any program that prepares individuals to select, culture, propagate, harvest, and market domesticated fish, shellfish, and marine plants, both freshwater and saltwater. These programs include courses in the basic principles of aquatic and marine biology; health and nutrition of aquatic and marine life; design and operation of fish farms, breeding facilities, culture beds, and related enterprises; and related issues of safety, applicable regulations, logistics, and supply.

Illustrative example(s)

- aquaculture
- aquaculture technician
- aquaculture technology
- fish culture

- fish farming
- pisciculture
- salmon farm technician
- sustainable aquaculture

Exclusion(s)

- aquatic biology (See 26.1304-Aquatic biology/limnology)
- fisheries management (See 03.0301-Fishing and fisheries sciences and management)
- fishing (See 49.0303-Commercial fishing)
- marine biology (See 26.1302-Marine biology and biological oceanography)
- marine resources management (See 03.0205-Water, wetlands and marine resources management)
- sustainability studies (See 30.3301-Sustainability studies)

01.0304 Crop production

This instructional program class comprises any program that prepares individuals to cultivate grain, fibre, forage, oilseed, fruits and nuts, vegetables, and other domesticated plant products. These programs include courses in basic principles of plant science, health, and nutrition as applied to particular species and breeds; soil preparation and irrigation; pest management; planting and harvesting operations; product marketing; and applicable issues of safety, regulation, logistics, and supply.

Illustrative example(s)

- aromatic and medicinal plant production
- crop production
- crop technology
- field crop production

Exclusion(s)

- agricultural production (See 01.0301-Agricultural production operations, general)
- botany (See 26.0301-Botany/plant biology, general)
- crop science (See 01.1102-Agronomy and crop science)
- organic farming (See 01.0308-Agroecology and sustainable agriculture)
- plant protection (See 01.1105-Plant protection and integrated pest management)
- plant sciences (See 01.1101-Plant sciences, general)
- viticulture (See 01.1004-Viticulture and enology)

01.0306 Dairy husbandry and production

This instructional program class comprises any program that prepares individuals to manage the selection and care of dairy animals and associated dairy farm and processing facilities and operations. These programs include courses in basic animal and dairy science; dairy animal nutrition and health; design and operation of dairy housing, feeding, and processing facilities and equipment; and related issues of safety, sanitation, shipping and handling, and applicable regulations.

Illustrative example(s)

- butter making
- cheese making
- dairy farming
- dairy herd management
- dairy herds person
- dairy husbandry
- dairy production
- dairy technology
- milk grading
- milk production

Exclusion(s)

- butcher (See 12.0506-Meat cutting/meat cutter)
- dairy science (See 01.0905-Dairy science)
- livestock production (See 01.0302-Animal/livestock husbandry and production)
- organic farming (See 01.0308-Agroecology and sustainable agriculture)

01.0307 Horse husbandry/equine science and management

This instructional program class comprises any program that prepares individuals to manage the selection, breeding, care, and maintenance of work, athletic, and show horses; and horse farms, stables, tracks and related equipment and operations. These programs include courses in applicable principles of animal science, care, and health; stable and track management; design and operation of facilities and equipment; and related issues such as regulations, business management; and logistics.

Illustrative example(s)

- equine management
- equine reproduction technician
- equine science
- equine technology
- horse breeding
- horse husbandry

Exclusion(s)

- animal breeding (See 01.0902-Agricultural animal breeding)
- animal husbandry (See 01.0302-Animal/livestock husbandry and production)
- blacksmith (See 48.0599-Precision metal working, other)
- equine care (See 01.0507-Equestrian/equine studies)
- equine massage therapy (See 01.0504-Dog/pet/animal grooming)
- horseshoeing (See 01.0509-Farrier science)
- livestock management (See 01.0906-Livestock management)

01.0308 Agroecology and sustainable agriculture

This instructional program class comprises any program that focuses on agricultural principles and practices that, over the long term, enhance environmental quality, make efficient use of non-renewable resources, integrate natural biological cycles and controls, and are economically viable and socially responsible; and that may prepare individuals to apply this knowledge to the solution of agricultural and environmental problems. These programs include courses in principles of agroecology, crop and soil sciences, entomology, horticulture, animal science, weed science and management, soil fertility and nutrient cycling, applied ecology, agricultural economics, and rangeland ecology and watershed management.

Illustrative example(s)

- agroecology
- organic agriculture
- organic farming
- organic farming inspection
- sustainable agriculture

Exclusion(s)

- agricultural production (See 01.0301-Agricultural production operations, general)
- animal husbandry (See 01.0302-Animal/livestock husbandry and production)
- beekeeping (See 01.0310-Apiculture)
- crop production (See 01.0304-Crop production)
- dairy production (See 01.0306-Dairy husbandry and production)
- sustainability studies (See 30.3301-Sustainability studies)

01.0310 Apiculture

This instructional program class comprises any program that focuses on improving the beekeeping industry, promoting pollination of fruits and vegetables, and bee colony expansion and maintenance. These programs include courses in apiary behaviour, apiary equipment and supplies, beekeeping, bee pests and parasites, handling bees, hive set up and care, queen rearing, and seasonal management practices.

Illustrative example(s)

- apiary management
- apiculture
- beekeeping
- commercial beekeeping
- master beekeeper
- scientific beekeeping

Exclusion(s)

- beekeeping (not for credit) (See 36.0120-Beekeeping (not for credit))
- urban beekeeping (not for credit) (See 36.0120-Beekeeping (not for credit))

01.0399 Agricultural production operations, other

This instructional program class comprises any program not listed above that relates to Agricultural production operations.

Illustrative example(s)

- maple production
- other agricultural production operations

Exclusion(s)

- agricultural production (See 01.0301-Agricultural production operations, general)
- animal husbandry (See 01.0302-Animal/livestock husbandry and production)
- beekeeping (See 01.0310-Apiculture)
- beekeeping (not for credit) (See 36.0120-Beekeeping (not for credit))
- crop production (See 01.0304-Crop production)
- dairy production (See 01.0306-Dairy husbandry and production)
- organic farming (See 01.0308-Agroecology and sustainable agriculture)

01.04 Agricultural and food products processing

This subseries comprises instructional program classes 01.0401 to 01.0499.

01.0401 Agricultural and food products processing, general

This instructional program class comprises any program that prepares individuals to receive, inspect, store, process, and package agricultural products in the form of human food consumables, animal or plant food, or other industrial products. These programs include courses in the nutrient and industrial properties of various agricultural products; logistics and storage procedures; chemical and mechanical processing operations; packaging; safety and health requirements; and related technical and business principles.

Illustrative example(s)

- agricultural products processing
- flour milling
- food inspection
- food products processing
- grain inspection
- seafood processing

Exclusion(s)

- dairy production (See 01.0306-Dairy husbandry and production)
- food preparation (See 12.0505-Food preparation/professional cooking/kitchen assistant)
- food processing technology (See 01.1002-Food technology and processing)
- maple production (See 01.0399-Agricultural production operations, other)
- public health inspection (See 51.2299-Public health, other)

01.0480 Cannabis product processing and inspection^{CAN}

This instructional program class comprises any program that prepares individuals to receive, inspect, store, process, and package cannabis plants and products in the form of medicinal products, human food consumables, and other products. These programs include courses in the medicinal and nutrient properties of various cannabis products; drying, curing, milling, extraction and other processing operations; packaging; logistics and storage procedures; inventory control; security requirements; sanitation; health and safety procedures; applicable laws and government regulatory and licensing requirements; and related technical and business principles.

Illustrative example(s)

- cannabis curing
- cannabis inspection
- cannabis milling
- cannabis oil extraction
- cannabis packaging
- cannabis processing
- cannabis processing and inspection
- cannabis product packaging
- cannabis product processing
- cannabis product processing and inspection
- licence for processing cannabis

Exclusion(s)

- cannabis plant science (See 01.1180-Cannabis product development and plant breeding)
- cannabis production (See 01.0680-Cannabis production operations and management)

01.0499 Agricultural and food products processing, other

This instructional program class comprises any program not listed above that relates to Agricultural and food products processing.

Illustrative example(s)

- other agricultural and food products processing

01.05 Agricultural and domestic animal services

This subseries comprises instructional program classes 01.0504 to 01.0599.

01.0504 Dog/pet/animal grooming

This instructional program class comprises any program that prepares individuals to provide cosmetic services for household pets, show animals, work animals and animal athletes. These programs include courses in skin, coat and pelt grooming and styling; skin care; hoof, nail, and claw care; animal massage; minor first aid and veterinary referral; animal grooming products and applications; health and safety; and applicable regulations.

Illustrative example(s)

- animal grooming
- dog grooming
- equine massage therapy

- horse grooming
- pet grooming
- pet stylist

Exclusion(s)

- cosmetology (See 12.0401-Cosmetology/cosmetologist, general)
- equine care (See 01.0507-Equestrian/equine studies)
- hairstyling (See 12.0407-Hair styling/stylist and hair design)
- horse breeding (See 01.0307-Horse husbandry/equine science and management)
- pedicure (See 12.0410-Nail technician/specialist and manicurist)

01.0505 Animal training

This instructional program class comprises any program that prepares individuals to teach and exercise animals for leisure, sport, show, and professional purposes. These programs include courses in animal psychology, health, and safety; human animal interaction; learning and behaviour styles associated with different breeds and species; and the technical and pedagogical aspects of training animals for such specific functions as obedient household pets, performing show animals, animal athletes, care-giving (e.g., seeing-eye dogs), search and rescue, and police/security work.

Illustrative example(s)

- animal training
- dog training

Exclusion(s)

- animal behaviour (See 26.0708-Animal behaviour and ethology)
- equine-assisted therapy (See 51.2313-Animal-assisted therapy)
- horse training (See 01.0507-Equestrian/equine studies)

01.0507 Equestrian/equine studies

This instructional program class comprises any program that focuses on the horse, horsemanship, and related subjects and prepares individuals to care for horses and horse equipment; ride and drive horses for leisure, sport, show, and professional purposes; and manage the training of horses and riders. These programs include courses in horse breeding, nutrition, health, and safety; history of the horse and horsemanship; horse development and training; riding and equestrian technique; stable, paddock, and track management; and equipment maintenance and repair.

Illustrative example(s)

- equestrian coaching
- equestrian sports
- equestrian studies
- equestrian training
- equine care
- equine studies
- horse dressage
- horse training
- horseback riding
- riding instruction

Exclusion(s)

- animal care technology (See 01.8301-Veterinary/animal health technology/technician and veterinary assistant)
- animal training (See 01.0505-Animal training)
- athletic trainer (See 51.0913-Athletic training/trainer)

- equine management (See 01.0307-Horse husbandry/equine science and management)
- equine-assisted therapy (See 51.2313-Animal-assisted therapy)
- horse grooming (See 01.0504-Dog/pet/animal grooming)
- physical education teacher (See 13.1314-Physical education teaching and coaching)

01.0508 Taxidermy/taxidermist

This instructional program class comprises any program that prepares individuals to reproduce life-like three-dimensional representations of living animals for permanent display using elements of the deceased specimen(s) as well as artificial materials, and to manage taxidermy services and businesses. These programs include courses in specimen grading and selection, capping and fleshing, preservation procedures, tanning, drying, measurements, form and armature construction, carpentry and woodworking, moulding and casting, drawing, sculptural techniques, painting and finishing techniques, basic business operations, customer communications, and applicable laws and regulations.

Illustrative example(s)

- taxidermist
- taxidermy

Exclusion(s)

- arts and crafts (See 50.0201-Crafts/craft design, folk art and artisanry)
- museum technology (See 30.1401-Museology/museum studies)

01.0509 Farrier science

This instructional program class comprises any program that prepares individuals to become specialists in equine hoof care (farriers). These programs include courses in equine science, equine health and first aid, general horseshoeing, corrective horseshoeing, gait analysis, and metal forging techniques using gas or coal.

Illustrative example(s)

- farrier
- farrier science
- farriery
- horseshoeing

Exclusion(s)

- farrier blacksmith (See 48.0599-Precision metal working, other)

01.0599 Agricultural and domestic animal services, other

This instructional program class comprises any program not listed above that relates to Agricultural and domestic animal services.

Illustrative example(s)

- animal attendant
- animal care
- animal care aide
- animal care assistant
- animal care attendant
- animal health care
- animal health care assistant
- laboratory animal attendant
- laboratory animal care worker
- other agricultural and domestic animal services

Exclusion(s)

- farrier science (See 01.0509-Farrier science)

01.06 Applied horticulture/horticultural business services

This subseries comprises instructional program classes 01.0601 to 01.0699.

01.0601 Applied horticulture/horticulture operations, general

This instructional program class comprises any program that focuses on the general production and processing of domesticated plants, shrubs, flowers, foliage, trees, groundcovers, and related plant materials; the management of technical and business operations connected with horticultural services; and the basic scientific principles needed to understand plants and their management and care.

Illustrative example(s)

- applied horticulture
- environmental horticulture technology
- horticultural technology
- horticulture
- horticulture operations
- horticulturist

Exclusion(s)

- botany (See 26.0301-Botany/plant biology, general)
- greenhouse operations and management (See 01.0604-Greenhouse operations and management)
- horticultural landscaping (See 01.0605-Landscaping and groundskeeping)
- horticultural science (See 01.1103-Horticultural science)
- horticulture therapy (See 51.2316-Horticulture therapy/therapist)
- landscape architecture (See 04.0601-Landscape architecture (BS, BSc, BSLA, BLA, MSLA, MLA, PhD))
- ornamental horticulture (See 01.0603-Ornamental horticulture)
- plant nursery operations and management (See 01.0606-Plant nursery operations and management)
- plant sciences (See 01.1101-Plant sciences, general)

01.0603 Ornamental horticulture

This instructional program class comprises any program that focuses on domesticated plants and plant materials used for decorative and recreational applications and prepares individuals to breed, grow, and utilize ornamental plant varieties for commercial and aesthetic purposes. These programs include courses in applicable plant science subjects, the environmental design and artistic aspects of horticultural product usage, and the management of horticultural operations.

Illustrative example(s)

- ornamental horticulture
- ornamental horticulture production

Exclusion(s)

- environmental design (See 04.0401-Environmental design/architecture, general)
- floristry (See 01.0608-Floriculture/floristry operations and management)
- greenhouse operations and management (See 01.0604-Greenhouse operations and management)
- horticultural science (See 01.1103-Horticultural science)
- horticulture (See 01.0601-Applied horticulture/horticulture operations, general)
- landscape design (See 01.0605-Landscaping and groundskeeping)
- plant nursery operations (See 01.0606-Plant nursery operations and management)

01.0604 Greenhouse operations and management

This instructional program class comprises any program that prepares individuals to produce, store, and deliver plant species in controlled indoor environments for wholesale, commercial, research, or other purposes. These programs include courses in applicable principles of plant science; climate, irrigation, and nutrition control equipment operation and maintenance; facilities management; inventory control; safety procedures; and personnel supervision.

Illustrative example(s)

- greenhouse management
- greenhouse operations and management
- greenhouse production technology

Exclusion(s)

- botany (See 26.0301-Botany/plant biology, general)
- floristry operations and management (See 01.0608-Floriculture/floristry operations and management)
- horticulture operations (See 01.0601-Applied horticulture/horticulture operations, general)
- plant breeding (See 01.1104-Agricultural and horticultural plant breeding)
- plant nursery operations (See 01.0606-Plant nursery operations and management)

01.0605 Landscaping and groundskeeping

This instructional program class comprises any program that prepares individuals to manage and maintain indoor and/or outdoor ornamental and recreational plants and groundcovers and related conceptual designs established by landscape architects, interior designers, enterprise owners or managers, and individual clients. These programs include courses in applicable principles of horticulture, gardening, plant and soil irrigation and nutrition, turf maintenance, plant maintenance, equipment operation and maintenance, personnel supervision, and purchasing.

Illustrative example(s)

- greenspace
- groundskeeping
- horticultural landscaping
- landscape and gardening
- landscape construction
- landscape design
- landscape gardener
- landscape management
- landscape technology
- landscaping

Exclusion(s)

- environmental design (See 04.0401-Environmental design/architecture, general)
- greenskeeping (See 31.0302-Golf course operation and grounds management)
- horticulture (See 01.0601-Applied horticulture/horticulture operations, general)
- landscape architecture (See 04.0601-Landscape architecture (BS, BSc, BSLA, BLA, MSLA, MLA, PhD))
- turf and turfgrass (See 01.0607-Turf and turfgrass management)

01.0606 Plant nursery operations and management

This instructional program class comprises any program that prepares individuals to operate and manage outdoor plant farms, tree and shrub nurseries, and related facilities that develop domesticated plant products for propagation, harvesting, and transplantation. These programs include courses in applicable principles of plant science; farm and business management; nursery operations; equipment operation and maintenance; safety procedures; and personnel supervision.

Illustrative example(s)

- nursery technology
- plant nursery management
- plant nursery operations
- plant nursery operations and management

Exclusion(s)

- floristry operations and management (See 01.0608-Floriculture/floristry operations and management)
- greenhouse operations and management (See 01.0604-Greenhouse operations and management)
- horticulture operations (See 01.0601-Applied horticulture/horticulture operations, general)
- plant sciences (See 01.1101-Plant sciences, general)

01.0607 Turf and turfgrass management

This instructional program class comprises any program that focuses on turf grasses and related groundcover plants and prepares individuals to develop ornamental or recreational grasses and related products; plant, transplant, and manage grassed areas; and to produce and store turf used for transplantation. These programs include courses in applicable plant sciences, genetics of grasses, turf science, use analysis, turf management, and related economics.

Illustrative example(s)

- golf and sports turf management
- turf and turfgrass
- turf maintenance
- turf management
- turf science
- turf technician
- turfgrass management
- turfgrass technology

Exclusion(s)

- greenskeeping (See 31.0302-Golf course operation and grounds management)
- greenspace maintenance (See 01.0605-Landscaping and groundskeeping)
- horticulture (See 01.0601-Applied horticulture/horticulture operations, general)
- ornamental horticulture (See 01.0603-Ornamental horticulture)
- sports and fitness management (See 31.0504-Sport and fitness administration/management)

01.0608 Floriculture/floristry operations and management

This instructional program class comprises any program that prepares individuals to operate and manage commercial and contract florist enterprises, supply and delivery services, and flower catering services. These programs include courses in the applicable principles of plant science; purchasing, storage, and delivery systems; floral design and arranging; and principles of business management.

Illustrative example(s)

- floral arrangement
- floral design
- floriculture
- florist
- floristry
- floristry operations and management
- retail floristry

Exclusion(s)

- floral arrangement (not for credit) (See 36.0122-Floral design/arrangement (not for credit))

- floral design (not for credit) (See 36.0122-Floral design/arrangement (not for credit))
- horticultural science (See 01.1103-Horticultural science)
- horticulture operations (See 01.0601-Applied horticulture/horticulture operations, general)
- ornamental horticulture (See 01.0603-Ornamental horticulture)
- plant nursery operations and management (See 01.0606-Plan nursery operations and management)
- plant sciences (See 01.1101-Plant sciences, general)
- retail sales (See 52.1803-Retailing and retail operations)

01.0609 Public horticulture

This instructional program class comprises any program that focuses on combining traditional horticulture and public education and outreach. These programs include courses in botany, soil science, plant science, agricultural economics, leadership, and business.

Illustrative example(s)

- public horticulture

Exclusion(s)

- community horticulture (See 01.0610-Urban and community horticulture)
- master gardener (See 36.0123-Master gardener/gardening (not for credit))

01.0610 Urban and community horticulture

This instructional program class comprises any program that focuses on principles and techniques for the production of horticultural crops in an urban environment. These programs include courses in ecology, environmental sustainability, food production systems, and plant and soil sciences.

Illustrative example(s)

- community horticulture
- sustainable urban horticulture
- urban and community horticulture
- urban horticulture

Exclusion(s)

- horticulture science in urban ecosystems (See 26.1301-Ecology)
- master gardener (See 36.0123-Master gardener/gardening (not for credit))
- public horticulture (See 01.0609-Public horticulture)
- urban ecosystems (See 26.1301-Ecology)

01.0680 Cannabis production operations and management^{CAN}

This instructional program class comprises any program that prepares individuals to produce, cultivate, propagate, harvest, store, and deliver cannabis plants and products outdoors and in controlled indoor environments for retail, wholesale, medicinal, commercial, research, and other purposes. These programs include courses in applicable principles of plant science; cultivar selection; plant management and care; growing mediums and hydroponic systems; product testing and quality assurance; plant nutrition, environment, lighting, climate, irrigation and pest control equipment operation and maintenance; facilities management; inventory control; security requirements; sanitation; health and safety procedures; applicable laws and government regulatory and licensing requirements; principles of business management; supply and delivery services; software applications; and personnel supervision.

Illustrative example(s)

- bud trimmer
- cannabis cultivation
- cannabis harvesting
- cannabis product quality assurance

- cannabis product testing
- cannabis production
- cannabis production facility management
- cannabis production operations
- cannabis production operations and management
- licensed producer of cannabis

Exclusion(s)

- budtender (See 52.1880-Cannabis-related selling skills and sales operations)
- cannabis plant science (See 01.1180-Cannabis product development and plant breeding)
- cannabis processing (See 01.0480-Cannabis product processing and inspection)

01.0699 Applied horticulture/horticultural business services, other

This instructional program class comprises any program not listed above that relates to Applied horticulture/horticultural business services.

Illustrative example(s)

- arboriculture
- arborist
- other applied horticulture/horticultural business services
- urban arboriculture
- utility arborist

Exclusion(s)

- floristry operations and management (See 01.0608-Floriculture/floristry operations and management)
- forest resources production and management (See 03.0510-Forest resources production and management)
- greenhouse operations and management (See 01.0604-Greenhouse operations and management)
- greenspace management (See 01.0605-Landscaping and groundskeeping)
- horticulture (See 01.0601-Applied horticulture/horticulture operations, general)
- plant nursery operations (See 01.0606-Plant nursery operations and management)
- turf and turfgrass (See 01.0607-Turf and turfgrass management)

01.07 International agriculture

This subseries comprises instructional program class 01.0701.

01.0701 International agriculture

This instructional program class comprises any program that focuses on the application of agricultural management and scientific principles to the problems of global food production and distribution, and to the study of the agricultural systems of other countries. These programs include courses in agricultural economics; comparative agricultural systems; international agribusiness and law; third-world development studies and economic development; and global applications of climate, soil, water resources, ecological and environmental studies, and animal and plant sciences.

Illustrative example(s)

- international agriculture

Exclusion(s)

- agribusiness (See 01.0102-Agribusiness/agricultural business operations)
- agricultural economics (See 01.0103-Agricultural economics)
- agricultural science (See 01.0000-Agriculture, general)
- international development (See 45.0604-Development economics and international development)
- international public policy (See 44.0504-International public policy analysis)
- sustainable agriculture (See 01.0308-Agroecology and sustainable agriculture)

01.08 Agricultural public services

This subseries comprises instructional program classes 01.0801 to 01.0899.

01.0801 Agricultural and extension education services

This instructional program class comprises any program that prepares individuals to provide referral, consulting, technical assistance, and educational services to gardeners, farmers, ranchers, agribusinesses, and other organizations. These programs include courses in basic agricultural sciences, agricultural business operations, pest control, adult education methods, public relations, applicable laws and regulations, and communication skills.

Illustrative example(s)

- agricultural and extension education services
- agricultural consulting services
- agricultural extension
- rural extension
- rural extension studies

Exclusion(s)

- agricultural teacher education (See 13.1301-Agricultural teacher education)

01.0802 Agricultural communication/journalism

This instructional program class comprises any program that prepares individuals to apply journalistic, communication, and broadcasting principles to the development, production, and transmittal of agricultural information. These programs include courses in basic journalism, broadcasting, film/video, and communication techniques; the production of technically specialized information products for agricultural audiences; and the principles of agricultural sciences and business operations needed to develop and communicate agricultural subject matter in effective ways.

Illustrative example(s)

- agricultural communications
- agricultural journalism

Exclusion(s)

- broadcast journalism (See 09.0402-Broadcast journalism)
- communication studies (See 09.0100-Communication, general)
- journalism (See 09.0401-Journalism, general)
- photojournalism (See 09.0404-Photojournalism)
- public relations (See 09.0902-Public relations/image management)

01.0899 Agricultural public services, other

This instructional program class comprises any program not listed above that relates to Agricultural public services.

Illustrative example(s)

- other agricultural public services

01.09 Animal sciences

This subseries comprises instructional program classes 01.0901 to 01.0999.

01.0901 Animal sciences, general

This instructional program class comprises any general program that focuses on the scientific principles that underlie the breeding and husbandry of agricultural animals, and the production, processing, and distribution

of agricultural animal products. These programs include courses in the animal sciences, animal husbandry and production, and agricultural and food products processing.

Illustrative example(s)

- animal sciences

Exclusion(s)

- agricultural production (See 01.0301-Agricultural production operations, general)
- animal biology (See 26.0701-Zoology/animal biology, general)
- animal breeding (See 01.0902-Agricultural animal breeding)
- animal genetics (See 26.0804-Animal genetics)
- animal husbandry (See 01.0302-Animal/livestock husbandry and production)
- animal physiology (See 26.0707-Animal physiology)

01.0902 Agricultural animal breeding

This instructional program class comprises any program that focuses on the application of genetics and genetic engineering to the improvement of agricultural animal health, the development of new animal breeds, and the selective improvement of agricultural animal populations. These programs include courses in genetics, genetic engineering, population genetics, animal health, animal husbandry, and biotechnology.

Illustrative example(s)

- animal breeding
- artificial insemination

Exclusion(s)

- animal genetics (See 26.0804-Animal genetics)
- animal health (See 01.0903-Animal health)
- animal husbandry (See 01.0302-Animal/livestock husbandry and production)
- horse breeding (See 01.0307-Horse husbandry/equine science and management)
- reproductive biology (See 26.0905-Reproductive biology)

01.0903 Animal health

This instructional program class comprises any program that focuses on the application of biological and chemical principles to the study, prevention, and control of diseases in agricultural animal populations. These programs include courses in environmental science, pharmacology, animal population studies, genetics, animal physiology and diet, disease prevention, treatment methodologies, and laboratory and testing procedures.

Illustrative example(s)

- animal health

Exclusion(s)

- animal biology (See 26.0701-Zoology/animal biology, general)
- animal health technician (See 01.8301-Veterinary/animal health technology/technician and veterinary assistant)
- animal physiology (See 26.0707-Animal physiology)
- animal sciences (See 01.0901-Animal sciences, general)
- immunology (See 26.0507-Immunology)
- veterinary practice - residency (See 60.0311-Veterinary practice residency programs)
- veterinary sciences (Cert., MS, MSc, PhD) (See 01.8101-Veterinary sciences/veterinary clinical sciences, general (Cert., MS, MSc, PhD))

01.0904 Animal nutrition

This instructional program class comprises any program that focuses on the biology and chemistry of proteins, fats, carbohydrates, water, vitamins, and feed additives as related to animal health and the production of improved animal products. These programs include courses in nutrition science, animal health and physiology, biochemistry, cellular and molecular biology, animal husbandry, and food science.

Illustrative example(s)

- animal nutrition

Exclusion(s)

- animal husbandry (See 01.0302-Animal/livestock husbandry and production)
- animal physiology (See 26.0707-Animal physiology)
- food and nutrition (See 19.0501-Foods, nutrition and wellness studies, general)
- nutrition science (See 30.1901-Nutrition sciences)
- nutritionist (See 51.3102-Clinical nutrition/nutritionist)
- veterinary nutrition - residency (See 60.0308-Veterinary nutrition residency programs)

01.0905 Dairy science

This instructional program class comprises any program that focuses on the application of biological and chemical principles to the production and management of dairy animals and the production and handling of dairy products. These programs include courses in animal sciences, nutrition sciences, food science and technology, biochemistry, and related aspects of human and animal health and safety.

Illustrative example(s)

- dairy science

Exclusion(s)

- dairy production (See 01.0306-Dairy husbandry and production)
- food inspection (See 01.0401-Agricultural and food products processing, general)
- food processing technology (See 01.1002-Food technology and processing)
- food science (See 01.1001-Food science)
- organic farming inspection (See 01.0308-Agroecology and sustainable agriculture)

01.0906 Livestock management

This instructional program class comprises any program that focuses on the application of biological and chemical principles to the production and management of livestock animals and the production and handling of meat and other products. These programs include courses in animal sciences, range science, nutrition sciences, food science and technology, biochemistry, and related aspects of human and animal health and safety.

Illustrative example(s)

- beef management
- beef production management
- livestock management
- meat science

Exclusion(s)

- agricultural business management (See 01.0101-Agricultural business and management, general)
- agricultural production (See 01.0301-Agricultural production operations, general)
- farm management (See 01.0104-Farm/farm and ranch management)
- livestock production (See 01.0302-Animal/livestock husbandry and production)

01.0907 Poultry science

This instructional program class comprises any program that focuses on the application of biological and chemical principles to the production and management of poultry animals and the production and handling of poultry products. These programs include courses in avian sciences, nutrition sciences, food science and technology, biochemistry, hatchery design, and related aspects of human and animal health and safety.

Illustrative example(s)

- poultry science

Exclusion(s)

- animal nutrition (See 01.0904-Animal nutrition)
- animal sciences (See 01.0901-Animal sciences, general)
- food processing technology (See 01.1002-Food technology and processing)
- food science (See 01.1001-Food science)
- poultry veterinarian - residency (See 60.0318-Poultry veterinarian residency programs)

01.0999 Animal sciences, other

This instructional program class comprises any program not listed above that relates to Animal sciences.

Illustrative example(s)

- other animal sciences

01.10 Food science and technology

This subseries comprises instructional program classes 01.1001 to 01.1099.

01.1001 Food science

This instructional program class comprises any program that focuses on the application of biological, chemical, and physical principles to the study of converting raw agricultural products into processed forms suitable for direct human consumption, and the storage of such products. These programs include courses in applicable aspects of the agricultural sciences, human physiology and nutrition, food chemistry, agricultural products processing, food additives, food preparation and packaging, food storage and shipment, and related aspects of human health and safety including toxicology and pathology.

Illustrative example(s)

- food chemistry
- food safety
- food science

Exclusion(s)

- cook (See 12.0500-Cooking and related culinary arts, general)
- culinary science (See 12.0509-Culinary science)
- food engineering (See 14.0301-Agricultural engineering)
- food preparation (See 12.0505-Food preparation/professional cooking/kitchen assistant)
- food processing technology (See 01.1002-Food technology and processing)
- foodsafe (See 12.0599-Culinary arts and related services, other)
- human nutritional sciences (See 30.1901-Nutrition sciences)

01.1002 Food technology and processing

This instructional program class comprises any program that focuses on the application of chemical, physical, and engineering principles to the development and implementation of manufacturing, packaging, storage, and distribution technologies and processes for food products. These programs include courses in food engineering,

food preservation and handling, food preparation, food packaging and display, food storage and shipment, and related equipment and facilities design, operation, and maintenance.

Illustrative example(s)

- agrifood technology
- bio-food technology
- food processing technology
- food technology

Exclusion(s)

- beer brewing (See 01.1003-Brewing science)
- butcher (See 12.0506-Meat cutting/meat cutter)
- cook (See 12.0500-Cooking and related culinary arts, general)
- dairy production (See 01.0306-Dairy husbandry and production)
- flour milling (See 01.0401-Agricultural and food products processing, general)
- food preparation (See 12.0505-Food preparation/professional cooking/kitchen assistant)
- food processing engineering (See 14.0301-Agricultural engineering)
- wine technology (See 01.1004-Viticulture and enology)

01.1003 Brewing science

This instructional program class comprises any program that focuses on the business, science, and technology of beer brewing operations. These programs include courses in biology, biochemistry, brewing, entrepreneurship, fermentation, malting, marketing, microbiology, quality control, and sanitation.

Illustrative example(s)

- beer brewing
- beer brewing operations
- brewery technician
- brewing and malting science
- brewing operations management
- brewing science
- brewing technology
- brewmaster
- brewmaster and brewery operations management
- craft beer brewing
- microbrewing

Exclusion(s)

- brewery management (See 52.0910-Brewery/brewpub management)
- brewing and distilling (See 01.1099-Food science and technology, other)
- fermentation science (See 01.1005-Zymology/fermentation science)
- food processing technology (See 01.1002-Food technology and processing)
- wine technology (See 01.1004-Viticulture and enology)

01.1004 Viticulture and enology

This instructional program class comprises any program that focuses on the application of scientific and agribusiness principles to the production of grapes, the making of wine, and the wine business. These programs include courses in grapes and wines of the world; grape production; winemaking technology; plant biology; chemistry; food science, safety, and packaging; soil science; pest management; and marketing and business management.

Illustrative example(s)

- enology

- grape growing
- viniculture
- vinification
- viticulture
- wine and fermentation
- wine fermentation
- wine making
- wine technology
- winemaking technology

Exclusion(s)

- agricultural production (See 01.0301-Agricultural production operations, general)
- beer brewing (See 01.1003-Brewing science)
- crop production (See 01.0304-Crop production)
- distilling (See 01.1099-Food science and technology, other)
- fermentation technology (See 01.1005-Zymology/fermentation science)
- food technology (See 01.1002-Food technology and processing)
- sommelier (See 12.0510-Wine steward/sommelier)

01.1005 Zymology/fermentation science

This instructional program class comprises any program that focuses on the business, science, and technology of fermented food production. These programs include courses in biology, biochemistry, brewing, entrepreneurship, fermentation, marketing, microbiology, quality control, and sanitation.

Illustrative example(s)

- fermentation and microbial technology
- fermentation science
- fermentation technician
- fermentation technology
- fermented food production
- food and fermentation technology
- zymology

Exclusion(s)

- brewing science (See 01.1003-Brewing science)
- fermentation engineering (See 14.9999-Engineering, other)
- wine fermentation (See 01.1004-Viticulture and enology)

01.1099 Food science and technology, other

This instructional program class comprises any program not listed above that relates to Food science and technology.

Illustrative example(s)

- artisan distilling
- brewing and distilling
- craft distilling
- distilling
- microdistilling
- other food science and technology

Exclusion(s)

- beer brewing (See 01.1003-Brewing science)
- wine technology (See 01.1004-Viticulture and enology)

01.11 Plant sciences

This subseries comprises instructional program classes 01.1101 to 01.1199.

01.1101 Plant sciences, general

This instructional program class comprises any general program that focuses on the scientific principles that underlie the breeding, cultivation, and production of agricultural plants, and the production, processing, and distribution of agricultural plant products. These programs include courses in the plant sciences, crop cultivation and production, and agricultural and food products processing.

Illustrative example(s)

- plant sciences

Exclusion(s)

- botany (See 26.0301-Botany/plant biology, general)
- crop science (See 01.1102-Agronomy and crop science)
- crop technology (See 01.0304-Crop production)
- horticultural science (See 01.1103-Horticultural science)

01.1102 Agronomy and crop science

This instructional program class comprises any program that focuses on the chemical, physical, and biological relationships of crops and the soils nurturing them. These programs include courses in the growth and behaviour of agricultural crops, the development of new plant varieties, and the scientific management of soils and nutrients for maximum plant nutrition, health, and productivity.

Illustrative example(s)

- agronomy and crop science
- crop science

Exclusion(s)

- agriculture soil science (See 01.1201-Soil science and agronomy, general)
- botany (See 26.0301-Botany/plant biology, general)
- crop technology (See 01.0304-Crop production)
- plant sciences (See 01.1101-Plant sciences, general)

01.1103 Horticultural science

This instructional program class comprises any program that focuses on the scientific principles related to the cultivation of garden and ornamental plants, including fruits, vegetables, flowers, and landscape and nursery crops. These programs include courses in specific types of plants, such as citrus; breeding horticultural varieties; physiology of horticultural species; and the scientific management of horticultural plant development and production through the life cycle.

Illustrative example(s)

- horticultural science

Exclusion(s)

- floristry (See 01.0608-Floriculture/floristry operations and management)
- greenhouse operations and management (See 01.0604-Greenhouse operations and management)
- horticultural landscaping (See 01.0605-Landscaping and groundskeeping)
- horticulture (See 01.0601-Applied horticulture/horticulture operations, general)
- nursery technology (See 01.0606-Plant nursery operations and management)
- ornamental horticulture (See 01.0603-Ornamental horticulture)
- plant science (See 01.1101-Plant sciences, general)

01.1104 Agricultural and horticultural plant breeding

This instructional program class comprises any program that focuses on the application of genetics and genetic engineering to the improvement of agricultural plant health, the development of new plant varieties, and the selective improvement of agricultural plant populations. These programs include courses in genetics, genetic engineering, population genetics, agronomy, plant protection, and biotechnology.

Illustrative example(s)

- agricultural plant breeding
- genetics and plant breeding
- horticultural plant breeding
- plant breeding
- plant breeding genetics

Exclusion(s)

- botany (See 26.0301-Botany/plant biology, general)
- horticultural science (See 01.1103-Horticultural science)
- horticultural technology (See 01.0601-Applied horticulture/horticulture operations, general)
- nursery technology (See 01.0606-Plant nursery operations and management)
- ornamental horticulture (See 01.0603-Ornamental horticulture)
- plant biotechnology (See 26.1201-Biotechnology)
- plant genetics (See 26.0805-Plant genetics)
- plant nursery operations and management (See 01.0606-Plant nursery operations and management)

01.1105 Plant protection and integrated pest management

This instructional program class comprises any program that focuses on the application of scientific principles to the control of animal, insect and weed infestation of domesticated plant populations and other settings, including agricultural crops; the prevention/reduction of attendant economic loss; and the control of environmental pollution and degradation related to pest infestation and pest control measures. These programs include courses in entomology, applicable animal sciences, plant pathology and physiology, weed science, crop science, and environmental toxicology.

Illustrative example(s)

- agriculture plant protection
- pest extermination
- pest management
- plant protection

Exclusion(s)

- crop technology (See 01.0304-Crop production)
- entomology (See 26.0702-Entomology)
- environmental toxicology (See 26.1006-Environmental toxicology)
- natural resources conservation (See 03.0101-Natural resources/conservation, general)
- plant physiology (See 26.0307-Plant physiology)

01.1106 Range science and management

This instructional program class comprises any program that focuses on the scientific study of rangelands, arid regions, grasslands, and other areas of low productivity, as well as the principles of managing such resources for maximum benefit and environmental balance. These programs include courses in livestock management, wildlife biology, plant sciences, ecology, soil science, and hydrology.

Illustrative example(s)

- range and pasture management

- range management
- range science

Exclusion(s)

- ecology (See 26.1301-Ecology)
- environmental biology (See 26.1305-Environmental biology)
- hydrology (See 40.0605-Hydrology and water resources science)
- livestock management (See 01.0906-Livestock management)
- plant sciences (See 01.1101-Plant sciences, general)
- wildlife management (See 03.0601-Wildlife, fish and wildlands science and management)

01.1180 Cannabis product development and plant breeding^{CAN}

This instructional program class comprises any program that focuses on the application of genetics and genetic engineering to the improvement of cannabis plant health, the development of new cannabis products and cannabis plant strains, and the selective improvement of cannabis plant populations. These programs include courses in genetics, genetic engineering, population genetics, agronomy, plant protection, and biotechnology; inventory control; security requirements; sanitation; health and safety procedures; and applicable laws and government regulatory and licensing requirements.

Illustrative example(s)

- cannabis plant breeding research
- cannabis plant genetics and breeding
- cannabis plant science
- cannabis product development and plant breeding
- cannabis research
- cannabis research and development
- development of new cannabis plant strains
- marijuana product development and plant breeding
- marijuana research and development
- new cannabis product development

Exclusion(s)

- cannabis processing (See 01.0480-Cannabis product processing and inspection)
- cannabis production (See 01.0680-Cannabis production operations and management)

01.1199 Plant sciences, other

This instructional program class comprises any program not listed above that relates to Plant sciences.

Illustrative example(s)

- crop and horticultural science
- other plant sciences
- plant science technology

Exclusion(s)

- botany (See 26.0301-Botany/plant biology, general)
- crop production (See 01.0304-Crop production)
- greenhouse operations and management (See 01.0604-Greenhouse operations and management)
- horticulture (See 01.0601-Applied horticulture/horticulture operations, general)
- plant biotechnology (See 26.1201-Biotechnology)
- plant breeding (See 01.1104-Agricultural and horticultural plant breeding)
- plant physiology (See 26.0307-Plant physiology)
- plant sciences (See 01.1101-Plant sciences, general)

01.12 Soil sciences

This subseries comprises instructional program classes 01.1201 to 01.1299.

01.1201 Soil science and agronomy, general

This instructional program class comprises any program that generally focuses on the scientific classification of soils, soil properties, and their relationship to agricultural crops. These programs include courses in soil chemistry, soil physics, soil biology, soil fertility, morphogenesis, mineralogy, hydrology, agronomy, and soil conservation and management.

Illustrative example(s)

- agricultural soils
- agriculture soil science
- agrology
- soil science
- soil science and agronomy

Exclusion(s)

- agricultural science (See 01.0000-Agriculture, general)
- agronomy and crop science (See 01.1102-Agronomy and crop science)
- Earth science (See 40.0601-Geology/Earth science, general)

01.1202 Soil chemistry and physics

This instructional program class comprises any program that focuses on the application of chemical and physical principles to research and analysis concerning the nature and properties of soils and the conservation and management of soils. These programs include courses in soil and fluid mechanics, mineralogy, sedimentology, thermodynamics, geomorphology, environmental systems, analytical methods, and organic and inorganic chemistry.

Illustrative example(s)

- soil chemistry
- soil physics

Exclusion(s)

- agronomy and crop science (See 01.1102-Agronomy and crop science)
- Earth science (See 40.0601-Geology/Earth science, general)
- environmental chemistry (See 40.0509-Environmental chemistry)
- organic chemistry (See 40.0504-Organic chemistry)
- soil microbiology (See 01.1203-Soil microbiology)
- soil science (See 01.1201-Soil science and agronomy, general)

01.1203 Soil microbiology

This instructional program class comprises any program that focuses on the application of microbiological theory and methods to the study of the organismic properties of soils, soil-plant and soil-animal interactions, and the biological components and effects of soil management strategies. These programs include courses in microbiology and related biological sciences, applicable animal and plant sciences, soil chemistry and physics as related to biological characteristics, and environmental science.

Illustrative example(s)

- soil microbiology

Exclusion(s)

- agricultural microbiology (See 01.9999-Agricultural and veterinary sciences/services/operations and related fields, other)
- agronomy and crop science (See 01.1102-Agronomy and crop science)
- environmental science (See 03.0104-Environmental science)
- microbiology (See 26.0502-Microbiology, general)
- soil science (See 01.1201-Soil science and agronomy, general)

01.1299 Soil sciences, other

This instructional program class comprises any program not listed above that relates to Soil sciences.

Illustrative example(s)

- environmental soil science
- farm drainage
- other soil sciences
- soil conservation
- soil technology

Exclusion(s)

- agricultural irrigation (See 01.0207-Irrigation management technology/technician)
- soil microbiology (See 01.1203-Soil microbiology)
- soil physics (See 01.1202-Soil chemistry and physics)
- soil science (See 01.1201-Soil science and agronomy, general)

01.13 Agriculture/veterinary preparatory programs

This subseries comprises instructional program classes 01.1302 to 01.1399.

01.1302 Pre-veterinary studies

This instructional program class comprises any program that prepares individuals for admission to a professional program in veterinary medicine.

Illustrative example(s)

- pre-veterinary medicine
- pre-veterinary studies

Exclusion(s)

- animal biology (See 26.0701-Zoology/animal biology, general)
- animal health (See 01.0903-Animal health)
- veterinary medicine (DVM) (See 01.8001-Veterinary medicine (DVM))
- veterinary practice - residency (See 60.0311-Veterinary practice residency programs)

01.1399 Agriculture/veterinary preparatory programs, other

This instructional program class comprises any program not listed above that relates to Agriculture or veterinary preparatory programs.

Illustrative example(s)

- other agriculture or veterinary preparatory programs

01.80 Veterinary medicine (DVM)

This subseries comprises instructional program class 01.8001.

01.8001 Veterinary medicine (DVM)

This instructional program class comprises any program that prepares individuals for the independent professional practice of veterinary medicine, involving the diagnosis, treatment, and health care management of animals and animal populations and the prevention and management of zoonosis. These programs include courses in the veterinary basic sciences, infectious and non-infectious disease, diagnostic procedures, veterinary clinical medicine, obstetrics, radiology, anesthesiology, surgery, toxicology, animal health and preventive medicine, clinical nutrition, practice management, and professional standards and ethics.

Illustrative example(s)

- doctor of veterinary medicine (DVM)
- veterinary medicine (DVM)

Exclusion(s)

- animal health (See 01.0903-Animal health)
- veterinary practice - residency (See 60.0311-Veterinary practice residency programs)
- veterinary sciences (Cert., MS, MSc, PhD) (See 01.8101-Veterinary sciences/veterinary clinical sciences, general (Cert., MS, MSc, PhD))
- veterinary technician (See 01.8301-Veterinary/animal health technology/technician and veterinary assistant)

01.81 Veterinary biomedical and clinical sciences (Cert., MS, MSc, PhD)

This subseries comprises instructional program classes 01.8101 to 01.8199.

01.8101 Veterinary sciences/veterinary clinical sciences, general (Cert., MS, MSc, PhD)

This instructional program class comprises any integrated program in one or more of the veterinary medical or clinical sciences or a program undifferentiated as to title.

Illustrative example(s)

- veterinary clinical science (Cert., MS, MSc, PhD)
- veterinary medical science (Cert., MS, MSc, PhD)
- veterinary sciences (Cert., MS, MSc, PhD)

Exclusion(s)

- animal biology (See 26.0701-Zoology/animal biology, general)
- medical science (MS, MSc, PhD) (See 51.1401-Medical science/scientist (MS, MSc, PhD))
- veterinary medicine (DVM) (See 01.8001-Veterinary medicine (DVM))
- veterinary practice - residency (See 60.0311-Veterinary practice residency programs)

01.8102 Comparative and laboratory animal medicine (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the scientific study of animal models of human disease and related experimental procedures, and prepares veterinarians and animal health specialists to manage the laboratory use and care of experimental animals. These programs include courses in laboratory animal husbandry, laboratory animal disease, biohazard control, gnotobiology, breeding, comparative anatomy and physiology, comparative gene mapping, protein function, physical and mathematical modelling, computer modelling, stem cell technology, colony and genetic stock management, cryopreservation, applicable regulations, and bioethics.

Illustrative example(s)

- comparative and laboratory animal medicine (Cert., MS, MSc, PhD)
- comparative medicine
- laboratory animal medicine

Exclusion(s)

- laboratory animal medicine - residency (See 60.0306-Laboratory animal medicine residency programs)
- veterinary medicine (DVM) (See 01.8001-Veterinary medicine (DVM))

01.8103 Large animal/food animal and equine surgery and medicine (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the scientific study of the internal medicine and invasive and non-invasive treatment of herd, work, sport, and food animals. These programs include courses in equine medicine, swine and dairy medicine, food animal medicine, pathophysiology, large animal diseases, large animal anesthesiology and surgical procedures, pre-operative and postoperative care, and specific medical specialties such as dentistry, ophthalmology, oncology, obstetrics/theriogenology, and orthopedics.

Illustrative example(s)

- equine surgery and medicine
- food animal surgery and medicine
- herd medicine and theriogenology (Cert., MS, MSc, PhD)
- large animal surgery and medicine
- large animal/food animal and equine surgery and medicine (Cert., MS, MSc, PhD)

Exclusion(s)

- veterinary medicine (DVM) (See 01.8001-Veterinary medicine (DVM))
- veterinary practice - residency (See 60.0311-Veterinary practice residency programs)
- veterinary surgery - residency (See 60.0314-Veterinary surgery residency programs)

01.8104 Small/companion animal surgery and medicine (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the scientific study of the internal medicine and invasive and non-invasive treatment of companion and household animals. These programs include courses in avian medicine, pet care, companion animal medicine, pathophysiology, small animal diseases, small animal anesthesiology and surgical procedures, pre-operative and postoperative care, and specific medical specialties such as dentistry, ophthalmology, oncology, obstetrics/theriogenology, and orthopedics.

Illustrative example(s)

- companion animal surgery and medicine
- small animal surgery and medicine
- small/companion animal surgery and medicine (Cert., MS, MSc, PhD)

Exclusion(s)

- veterinary medicine (DVM) (See 01.8001-Veterinary medicine (DVM))
- veterinary practice - residency (See 60.0311-Veterinary practice residency programs)
- veterinary surgery - residency (See 60.0314-Veterinary surgery residency programs)

01.8105 Veterinary anatomy (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the scientific study of the structure of small and large animal cellular, organ, tissue, and body systems and their relation to physiologic function, disease, and therapeutic treatment. These programs include courses in histology, ultrastructure, molecular biology, biochemistry, developmental biology, neuroscience, electrophysiology, electron microscopy, computer imaging, and applications to specific species.

Illustrative example(s)

- veterinary anatomy
- veterinary anatomy (Cert., MS, MSc, PhD)

Exclusion(s)

- veterinary medicine (DVM) (See 01.8001-Veterinary medicine (DVM))

01.8106 Veterinary infectious diseases (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the scientific study of zoonotic infectious diseases, disease mechanisms, and prevention and treatment strategies. These programs include courses in disease pathogenesis, vector biology, mycobacterial infection, blood parasites, retroviruses, food-borne diseases, new infectious agents, ecotoxicology, mechanisms of disease transfer, antibody resistance, comparative pathology, communicable diseases, and disease prevention and eradication.

Illustrative example(s)

- veterinary infectious diseases
- veterinary infectious diseases (Cert., MS, MSc, PhD)
- veterinary parasitology (Cert., MS, MSc, PhD)

Exclusion(s)

- infectious disease - fellowship (See 61.0810-Infectious disease fellowship programs)
- pediatric infectious diseases - fellowship (See 61.1912-Pediatric infectious diseases fellowship programs)
- veterinary epidemiology (See 01.8110-Veterinary preventive medicine, epidemiology and public health (Cert., MS, MSc, PhD))
- veterinary pathology - residency (See 60.0310-Veterinary pathology residency programs)
- veterinary toxicology - residency (See 60.0316-Veterinary toxicology residency programs)

01.8107 Veterinary microbiology and immunobiology (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the scientific study of the microbial causation and immunologic processes related to animal disease, prevention, and treatment. These programs include courses in bacteriology, mycology, virology, immune response mechanisms, humoral and cell function, cancer defences, immune system dysfunction, immunologic diseases, parasitology, pathogenesis, and disease vectors.

Illustrative example(s)

- veterinary immunobiology
- veterinary microbiology
- veterinary microbiology and immunobiology (Cert., MS, MSc, PhD)

Exclusion(s)

- microbiology and immunology (See 26.0508-Microbiology and immunology)
- veterinary microbiology - residency (See 60.0307-Veterinary microbiology residency programs)

01.8108 Veterinary pathology and pathobiology (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the scientific study of the development and process of disease in domestic and wild animals and applications to diagnosis, prevention, and treatment. These programs include courses in pathogenesis, immunoparasitology, viral therapy, inherited metabolic diseases, environmental toxicology, anatomical and clinical pathology, necropsy and biopsy techniques, clinical laboratory analysis, pathological interpretation, and disease diagnosis.

Illustrative example(s)

- veterinary pathobiology
- veterinary pathology
- veterinary pathology and pathobiology (Cert., MS, MSc, PhD)

Exclusion(s)

- biomedical toxicology (See 26.1004-Toxicology)
- veterinary pathology - residency (See 60.0310-Veterinary pathology residency programs)

01.8109 Veterinary physiology (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the scientific study of the functional dynamics of animal biological systems and their relationship to the diagnosis and treatment of disease and injury. These programs include courses in mammalian and non-mammalian physiology, laboratory physiology, physiological responses to the environment, endocrinology, animal biotechnology, mechanisms of hormone action, organ systems, metabolism, and pathophysiology.

Illustrative example(s)

- veterinary physiology
- veterinary physiology (Cert., MS, MSc., PhD)

Exclusion(s)

- veterinary medicine (DVM) (See 01.8001-Veterinary medicine (DVM))

01.8110 Veterinary preventive medicine, epidemiology and public health (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the study of the prevention and control of communicable animal diseases, diseases affecting humans, and prepares veterinarians to function as public health specialists. These programs include courses in animal epidemiology, biostatistics, food safety and quality assurance, food toxicology, zoonotic and infectious diseases, disease vectors and transference, production medicine, animal health, veterinary public health practice, and inspection and evaluation methods.

Illustrative example(s)

- veterinary epidemiology
- veterinary preventive medicine
- veterinary preventive medicine, epidemiology and public health (Cert., MS, MSc, PhD)
- veterinary public health

Exclusion(s)

- veterinary medicine (DVM) (See 01.8001-Veterinary medicine (DVM))
- veterinary preventive medicine - residency (See 60.0312-Veterinary preventive medicine residency programs)

01.8111 Veterinary toxicology and pharmacology (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the scientific study of specific environmental and food hazards affecting domestic and wild animals and the development and action of chemical antidotes and treatments. These programs include courses in small and large animal toxicology and pharmacology, neurotoxicology, pharmacodynamics, pharmacokinetics, neuropharmacology, xenobiotics, drug resistance, pesticides, toxicological pathology, genetic and molecular toxicology, environmental toxicology, drug and toxicant analysis and evaluation, and environmental radiology.

Illustrative example(s)

- veterinary pharmacology
- veterinary toxicology
- veterinary toxicology and pharmacology (Cert., MS, MSc, PhD)

Exclusion(s)

- veterinary clinical pharmacology - residency (See 60.0320-Veterinary clinical pharmacology residency programs)
- veterinary toxicology - residency (See 60.0316-Veterinary toxicology residency programs)

01.8199 Veterinary biomedical and clinical sciences, other (Cert., MS, MSc, PhD)

This instructional program class comprises any program not listed above that relates to Veterinary biomedical and clinical sciences (Cert., MS, MSc, PhD).

Illustrative example(s)

- other veterinary biomedical and clinical sciences

01.82 Veterinary administrative services

This subseries comprises instructional program classes 01.8201 to 01.8299.

01.8201 Veterinary administrative services, general

This instructional program class comprises any general program that prepares individuals to provide administrative support services in a veterinary office or animal care facility. These programs include courses in business office operations, customer service, principles of veterinary health care operations, record-keeping, veterinary terminology, and professional standards and ethics.

Illustrative example(s)

- veterinary administrative clerk
- veterinary administrative services
- veterinary office administration clerk
- veterinary office assistant
- veterinary office clerk

01.8202 Veterinary office management/administration

This instructional program class comprises any program that prepares individuals to manage the specialized business functions of a veterinary office. These programs include courses in business office operations, business and financial record-keeping, personnel supervision, veterinary care policy administration, conference planning, scheduling and coordination, public relations, and applicable law and regulations.

Illustrative example(s)

- veterinary office administration
- veterinary office management
- veterinary office manager
- veterinary practice administration
- veterinary practice management
- veterinary practice manager

Exclusion(s)

- medical office administration (See 51.0705-Medical office management/administration)

01.8203 Veterinary reception/receptionist

This instructional program class comprises any program that prepares individuals, under the supervision of office managers, veterinary technicians, or veterinarians, to provide customer service, visitor reception, and patient intake and discharge services. These programs include courses in veterinary office and animal care facility procedures, veterinary terminology, interpersonal skills, record-keeping, customer service, telephone skills, data entry, interpersonal communications skills, and applicable policies and regulations.

Illustrative example(s)

- veterinary office reception
- veterinary office receptionist
- veterinary reception
- veterinary receptionist

Exclusion(s)

- medical office receptionist (See 51.0712-Medical reception/receptionist)

01.8204 Veterinary administrative/executive assistant and veterinary secretary

This instructional program class comprises any program that prepares individuals to perform the duties of special assistants and personal secretaries for practicing veterinarians, veterinary health care facilities and services administrators, and other veterinary professionals. These programs include courses in business and veterinary communications, veterinary terminology, principles of veterinary health care operations, public relations and interpersonal communications, software applications, record-keeping and filing systems, scheduling and meeting planning, applicable policy and regulations, and professional standards and ethics.

Illustrative example(s)

- veterinary administrative assistant
- veterinary executive assistant
- veterinary secretary

Exclusion(s)

- medical administrative assistant (See 51.0716-Medical administrative/executive assistant and medical secretary)

01.8299 Veterinary administrative services, other

This instructional program class comprises any program not listed above that relates to Veterinary administrative services.

Illustrative example(s)

- other veterinary administrative services

01.83 Veterinary/animal health technologies/technicians

This subseries comprises instructional program classes 01.8301 to 01.8399.

01.8301 Veterinary/animal health technology/technician and veterinary assistant

This instructional program class comprises any program that prepares individuals, under the supervision of veterinarians, laboratory animal specialists, and zoological professionals, to provide patient management, care, and clinical procedures assistance as well as owner communication. These programs include courses in animal nursing care, animal health and nutrition, animal handling, clinical pathology, radiology, anesthesiology, dental prophylaxis, surgical assisting, clinical laboratory procedures, office administration skills, patient and owner management, and applicable standards and regulations.

Illustrative example(s)

- animal care technician
- animal care technology
- animal health technician
- animal health technology
- laboratory animal technician
- laboratory animal technologist
- veterinary assistant

- veterinary technician
- veterinary technologist
- veterinary technology

Exclusion(s)

- animal health (See 01.0903-Animal health)
- veterinary medicine (DVM) (See 01.8001-Veterinary medicine (DVM))
- veterinary sciences (Cert., MS, MSc, PhD) (See 01.8101-Veterinary sciences/veterinary clinical sciences, general (Cert., MS, MSc, PhD))

01.8399 Veterinary/animal health technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Veterinary or animal health technologies/technicians.

Illustrative example(s)

- other animal health technologies/technicians
- other veterinary technologies/technicians

01.99 Agricultural and veterinary sciences/services/operations and related fields, other

This subseries comprises instructional program class 01.9999.

01.9999 Agricultural and veterinary sciences/services/operations and related fields, other

This instructional program class comprises any program not listed above that relates to Agricultural and veterinary sciences/services/operations and related fields.

Illustrative example(s)

- agricultural biology
- agricultural chemistry
- agricultural microbiology
- animal welfare
- animal welfare science
- equine welfare
- horse welfare
- other agricultural and veterinary sciences/services/operations and related fields
- wild animal welfare

Exclusion(s)

- agricultural engineering (See 14.0301-Agricultural engineering)
- ecology (See 26.1301-Ecology)
- maple production (See 01.0399-Agricultural production operations, other)
- organic chemistry (See 40.0504-Organic chemistry)
- organic farming (See 01.0308-Agroecology and sustainable agriculture)
- soil microbiology (See 01.1203-Soil microbiology)

03. Natural resources and conservation

This series comprises instructional programs that focus on the various natural resources and conservation fields and prepare individuals for related occupations.

03.01 Natural resources conservation and research

This subseries comprises instructional program classes 03.0101 to 03.0199.

03.0101 Natural resources/conservation, general

This instructional program class comprises any general program that focuses on the studies and activities relating to the natural environment and its conservation, use, and improvement. These programs include courses in subjects such as climate, air, soil, water, land, fish and wildlife, and plant resources; in the basic principles of environmental science and natural resources management; and the recreational and economic uses of renewable and non-renewable natural resources.

Illustrative example(s)

- environmental and conservation science
- environmental conservation
- environmental systems
- natural resource science
- natural resources
- natural resources conservation
- natural resources technology

Exclusion(s)

- conservation officer (See 03.0208-Environmental/natural resources law enforcement and protective services)
- natural resource management (See 03.0201-Environmental/natural resources management and policy, general)
- natural resources interpretation (See 03.0207-Environmental/natural resource recreation and tourism)
- natural resources law (graduate level) (See 22.0207-Energy, environment and natural resources law (LLM, MS, MSc, LLD, JSD/SJD))

03.0103 Environmental studies

This instructional program class comprises any program that focuses on environment-related issues using scientific, social scientific, and/or humanistic approaches. These programs include courses in the basic principles of ecology and environmental science and related subjects such as policy, politics, law, economics, social aspects, planning, pollution control, natural resources, and the interactions of human beings and nature.

Illustrative example(s)

- ecosystem studies
- environmental resource studies
- environmental studies

Exclusion(s)

- environmental education (See 13.1338-Environmental teacher education)
- environmental engineering (See 14.1401-Environmental/environmental health engineering)
- environmental engineering technology (See 15.0507-Environmental/environmental engineering technology/technician)
- environmental law (graduate level) (See 22.0207-Energy, environment and natural resources law (LLM, MS, MSc, LLD, JSD/SJD))
- environmental science (See 03.0104-Environmental science)

03.0104 Environmental science

This instructional program class comprises any program that focuses on the application of biological, chemical, and physical principles to the study of the physical environment and the solution of environmental problems, including subjects such as abating or controlling environmental pollution and degradation; the interaction between human society and the natural environment; and natural resources management. These programs include courses in biology, chemistry, physics, geosciences, climatology, statistics, and mathematical modelling.

Illustrative example(s)

- bioenvironmental sciences
- environmental physics
- environmental science

Exclusion(s)

- environmental biology (See 26.1305-Environmental biology)
- environmental education (See 13.1338-Environmental teacher education)
- environmental engineering (See 14.1401-Environmental/environmental health engineering)
- environmental engineering technology (See 15.0507-Environmental/environmental engineering technology/technician)
- environmental health (See 51.2202-Environmental health)
- environmental studies (See 03.0103-Environmental studies)
- environmental toxicology (See 26.1006-Environmental toxicology)

03.0199 Natural resources conservation and research, other

This instructional program class comprises any program not listed above that relates to Natural resources conservation and research.

Illustrative example(s)

- ecological restoration
- ecological restoration and rehabilitation
- environmental conservation and reclamation
- other natural resources conservation and research
- renewable resources
- renewable resources technology
- urban land regeneration

Exclusion(s)

- conservation biology (See 26.1307-Conservation biology)
- renewable energy technology (See 15.1799-Energy systems technologies/technicians, other)

03.02 Environmental/natural resources management and policy

This subseries comprises instructional program classes 03.0201 to 03.0299.

03.0201 Environmental/natural resources management and policy, general

This instructional program class comprises any program that prepares individuals to plan, develop, manage, and evaluate programs to protect and regulate natural habitats and renewable natural resources. These programs include courses in the principles of wildlife and conservation biology, environmental science, animal population surveying, natural resource economics, management techniques for various habitats, applicable law and policy, administrative and communications skills, and public relations.

Illustrative example(s)

- conservation management
- ecosystem management
- environmental management
- environmental management and policy
- environmental policy
- environmental policy analysis
- natural resource management
- natural resources management and policy
- natural resources policy

- renewable resource management

Exclusion(s)

- ecotourism (See 03.0207-Environmental/natural resource recreation and tourism)
- energy and environmental policy (See 03.0209-Energy and environmental policy/environmental energy policy)
- natural resources conservation (See 03.0101-Natural resources/conservation, general)

03.0204 Environmental/natural resource economics

This instructional program class comprises any program that focuses on the application of economic concepts and methods to the analysis of issues such as air and water pollution, land use planning, waste disposal, invasive species and pest control, conservation policies, and related environmental problems. These programs include courses in cost-benefit analysis; environmental impact assessment; evaluation and assessment of alternative resource management strategies; policy evaluation and monitoring; and descriptive and analytic tools for studying how environmental developments affect the economic system.

Illustrative example(s)

- environmental economics
- forest economics
- mineral economics
- natural resource economics

Exclusion(s)

- agricultural economics (See 01.0103-Agricultural economics)
- applied economics (See 45.0602-Applied economics)
- development economics (See 45.0604-Development economics and international development)
- economics (See 45.0601-Economics, general)
- ecotourism (See 03.0207-Environmental/natural resource recreation and tourism)
- international economics (See 45.0605-International economics)

03.0205 Water, wetlands and marine resources management

This instructional program class comprises any program that prepares individuals to apply the principles of marine/aquatic biology, oceanography, natural resource economics, and natural resources management to the development, conservation, and management of freshwater and saltwater environments. These programs include courses in subjects such as wetlands, riverine, lacustrine, coastal, and oceanic water resources; water conservation and use; flood control; pollution control; water supply logistics; wastewater management; aquatic and marine ecology; aquatic and marine life conservation; and the economic and recreational uses of water resources.

Illustrative example(s)

- integrated management of coastal zones
- marine resources management
- water resources management
- water, wetlands and marine resources management

Exclusion(s)

- hydrological engineering (See 14.0802-Geotechnical and geoenvironmental engineering)
- marine environment technology (See 15.0507-Environmental/environmental engineering technology/technician)
- marine sciences (See 30.3201-Marine sciences)
- maritime studies (See 30.2901-Maritime studies)
- water quality technology (See 15.0506-Water quality and wastewater treatment management and recycling technology/technician)

- water resources engineering (See 14.0805-Water resources engineering)
- water resources science (See 40.0605-Hydrology and water resources science)

03.0206 Land use planning and management/development

This instructional program class comprises any program that focuses on how public and/or private land and associated resources can be preserved, developed, and used for maximum social, economic, and environmental benefit. These programs include courses in natural resources management, natural resource economics, public policy, regional and land use planning, environmental impact assessment, applicable laws and regulations, government and politics, principles of business and real estate land use, statistical and analytical tools, computer applications, mapping and report preparation, site analysis, cost analysis, and communications skills.

Illustrative example(s)

- integrated land management
- land management
- land use planning
- land use planning and development
- land use planning and management

Exclusion(s)

- economic development (See 45.0604-Development economics and international development)
- park facilities development and management (See 31.0301-Parks, recreation, and leisure facilities management, general)
- real property development (See 04.1001-Real estate development)
- urban and regional planning (See 04.0301-City/urban, community and regional planning)

03.0207 Environmental/natural resource recreation and tourism

This instructional program class comprises any program that prepares individuals to plan, develop, and manage tourism in a natural resource setting, with an emphasis on applying environmentally sound, culturally sensitive, and economically sustainable principles. These programs include courses in environmental studies; natural resource management and interpretation; tourism planning, management, and policies; public land use management and policies; communications; marketing; and public relations.

Illustrative example(s)

- adventure tourism
- ecotourism
- forest recreation technician
- hunting and fishing guide
- natural resource recreation
- natural resource tourism
- natural resources interpretation
- resource recreation and tourism
- sustainable outdoor recreation
- wildland recreation

Exclusion(s)

- natural resource economics (See 03.0204-Environmental/natural resource economics)
- natural resource management (See 03.0201-Environmental/natural resources management and policy, general)
- natural resources conservation (See 03.0101-Natural resources/conservation, general)
- outdoor recreation leadership (See 31.0601-Outdoor education)
- parks management (See 31.0301-Parks, recreation, and leisure facilities management, general)
- sustainability studies (See 30.3301-Sustainability studies)
- wilderness guide (See 31.0601-Outdoor education)

03.0208 Environmental/natural resources law enforcement and protective services

This instructional program class comprises any program that prepares individuals to enforce natural resource and environmental protection regulations and laws; and to perform emergency duties to protect human life, property and natural resources, including fire prevention and control measures, and emergency and rescue procedures. These programs include courses in natural and physical sciences, natural resource management, outdoor field skills, firearms and outdoor equipment and vehicle operation, evidence collection and environmental sampling and monitoring, natural resource legislation, environmental compliance techniques, patrol procedures, investigation and report writing, interpersonal skills and crisis intervention, community liaison, public safety, public education, and public relations.

Illustrative example(s)

- conservation enforcement
- conservation officer
- environmental law enforcement
- environmental monitoring and enforcement
- fish and wildlife law enforcement
- forest ranger
- forestry law enforcement
- game warden
- natural resources law enforcement
- wildlife officer

Exclusion(s)

- natural resources law (graduate level) (See 22.0207-Energy, environment and natural resources law (LLM, MS, MSc, LLD, JSD/SJD))
- parks management (See 31.0301-Parks, recreation, and leisure facilities management, general)

03.0209 Energy and environmental policy/environmental energy policy

This instructional program class comprises any program that focuses on the systematic analysis of policy issues (including public policy issues) related to climate change, energy policy, environmental economics, global sustainability, and security. These programs include courses in climate change, clean energy technologies, environmental policy, environmental law, environmental economics, food security, fossil fuels, renewable and sustainable energy sources, and water issues.

Illustrative example(s)

- energy and environmental policy
- environmental energy policy

Exclusion(s)

- environmental policy (See 03.0201-Environmental/natural resources management and policy, general)

03.0210 Bioenergy resource development and management

This instructional program class comprises any program that focuses on the environmental and economic impact of using plants and microbes for the production of bio-based fuels such as ethanol and biodiesel. These programs include courses in biochemical engineering, bioprocessing, bioseparations, conversion, feedstock, economics, environmental sustainability, hydrology, and natural resource management.

Illustrative example(s)

- bioenergy
- bioenergy and biofuels
- bioenergy and sustainable technology
- bioenergy resource development

- bioenergy resource development and management
- bioenergy resource management
- bioenergy science
- biomass energy
- biomass energy conversion

Exclusion(s)

- biomass engineering (See 14.4501-Biological/biosystems engineering)

03.0299 Environmental/natural resources management and policy, other

This instructional program class comprises any program not listed above that relates to Environmental or natural resources management and policy.

Illustrative example(s)

- other environmental/natural resources management and policy

Exclusion(s)

- environmental engineering technology (See 15.0507-Environmental/environmental engineering technology/technician)
- natural resources conservation (See 03.0101-Natural resources/conservation, general)

03.03 Fishing and fisheries sciences and management

This subseries comprises instructional program class 03.0301.

03.0301 Fishing and fisheries sciences and management

This instructional program class comprises any program that focuses on the scientific study of the husbandry and production of non-domesticated fish and shellfish populations for recreational and commercial purposes and the management of fishing and marine/aquatic product processing to ensure adequate conservation and efficient utilization. These programs include courses in the principles of marine/aquatic biology, freshwater and saltwater ecosystems, water resources, fishing production operations and management, fishing policy and regulation, and the management of recreational and commercial fishing activities.

Illustrative example(s)

- fisheries development
- fisheries management
- fisheries science
- fishing and fisheries management
- fishing and fisheries sciences

Exclusion(s)

- aquaculture (See 01.0303-Aquaculture)
- fisheries biology (See 26.1304-Aquatic biology/limnology)
- fishing (See 49.0303-Commercial fishing)

03.05 Forestry

This subseries comprises instructional program classes 03.0501 to 03.0599.

03.0501 Forestry, general

This instructional program class comprises any program that generally prepares individuals to manage and develop forest areas for economic, recreational, and ecological purposes. These programs include courses in forest-related sciences, mapping, statistics, harvesting and production technology, natural resources management and economics, wildlife sciences, administration, and public relations.

Illustrative example(s)

- forester
- forestry

Exclusion(s)

- forest engineering (See 14.3401-Forest engineering)
- forest ranger (See 03.0208-Environmental/natural resources law enforcement and protective services)
- hunting and fishing guide (See 03.0207-Environmental/natural resource recreation and tourism)

03.0502 Forest sciences and biology

This instructional program class comprises any program that focuses on the application of one or more forest-related sciences to the study of environmental factors affecting forests and the growth and management of forest resources. These programs include courses in forest biology, forest hydrology, forest mensuration, silviculture, forest soils, water resources, environmental science, forest resources management, and wood science.

Illustrative example(s)

- forest biology
- forest ecology
- forest entomology
- forest genetics
- forest pathology
- forest science

Exclusion(s)

- botany (See 26.0301-Botany/plant biology, general)
- conservation biology (See 26.1307-Conservation biology)
- forest engineering (See 14.3401-Forest engineering)
- urban forestry (See 03.0508-Urban forestry)

03.0506 Forest management/forest resources management

This instructional program class comprises any program that prepares individuals to apply principles of forestry and natural resources management to the administration of forest lands and related resources. These programs include courses in silviculture, forest mensuration, forest protection, inventorying, biometrics, geographic information systems, remote sensing, photogrammetry, forest policy and economics, forest land use planning, fire protection and management, and related administrative skills.

Illustrative example(s)

- forest management
- forest resource management
- forestry management
- forestry resource management
- silviculture
- sustainable management of forest resources
- sylviculture

Exclusion(s)

- forest engineering (See 14.3401-Forest engineering)
- forest resources production and management (See 03.0510-Forest resources production and management)
- parks management (See 31.0301-Parks, recreation, and leisure facilities management, general)
- sustainability studies (See 30.3301-Sustainability studies)

03.0508 Urban forestry

This instructional program class comprises any program that prepares individuals to apply the principles of forestry and related sciences to the development, care, and maintenance of individual trees and forested areas within or close to areas of dense human habitation. These programs include courses in urban environments; effects of pollution on tree species; environmental design and landscaping; urban pest infestation; urban forest management; and applicable policies and regulations.

Illustrative example(s)

- urban forestry

Exclusion(s)

- greenspace maintenance (See 01.0605-Landscaping and groundskeeping)
- urban arboriculture (See 01.0699-Applied horticulture/horticultural business services, other)

03.0509 Wood science and wood products/pulp and paper technology/technician

This instructional program class comprises any program that focuses on the application of chemical, physical, and engineering principles to the analysis of the properties and behaviour of wood and wood products and the development of processes for converting wood into paper and other products. These programs include courses in wood classification and testing, product development, manufacturing and processing technologies, and the design and development of related equipment and systems.

Illustrative example(s)

- forest products processing technology
- log scaling
- lumber grading
- milling lumber
- paper making technology
- pulp and paper production
- pulp and paper technology
- wood products processing
- wood science
- wood science and technology

Exclusion(s)

- forest engineering (See 14.3401-Forest engineering)
- forest products technology (See 03.0511-Forest technology/technician)
- pulp and paper engineering (See 14.4001-Paper science and engineering)
- woodworking (See 48.0701-Woodworking, general)

03.0510 Forest resources production and management

This instructional program class comprises any program that focuses on the application of forestry principles to the production, harvesting, and processing of forest resources and that prepares individuals to perform associated technical and managerial functions. These programs include courses in forest production and utilization, industrial forestry, agroforestry, transplantation, timber harvesting, selection and identification of trees, processing technologies and systems, equipment operations and maintenance, and related management skills.

Illustrative example(s)

- forest resources production
- forest resources production and management

Exclusion(s)

- forest resource management (See 03.0506-Forest management/forest resources management)

03.0511 Forest technology/technician

This instructional program class comprises any program that prepares individuals to assist foresters in the management and production of forest resources. These programs include courses in woods and field skills, tree identification, timber measurement, logging and timber harvesting, forest propagation and regeneration, forest firefighting, resource management, equipment operation and maintenance, record keeping, sales and purchasing operations, and personnel supervision.

Illustrative example(s)

- cutter and skidder
- forest products technology
- forest technician
- forest technology
- forestry crew
- forestry technology
- forestry worker
- logging
- lumber jack
- skidder operator

Exclusion(s)

- forest engineering (See 14.3401-Forest engineering)
- forest firefighting (See 43.0206-Wildland/forest firefighting and investigation)
- forestry (See 03.0501-Forestry, general)
- heavy equipment operation -forestry (See 49.0202-Construction/heavy equipment/earthmoving equipment operation)
- wood cutting and processing (See 03.0599-Forestry, other)

03.0599 Forestry, other

This instructional program class comprises any program not listed above that relates to Forestry.

Illustrative example(s)

- harvesting of forest biomass
- other forestry
- wood cutting and processing

Exclusion(s)

- bush pilot (See 49.0102-Airline/commercial/professional pilot and flight crew)
- forestry worker (See 03.0511-Forest technology/technician)
- hunting and fishing guide (See 03.0207-Environmental/natural resource recreation and tourism)

03.06 Wildlife and wildlands science and management

This subseries comprises instructional program class 03.0601.

03.0601 Wildlife, fish and wildlands science and management

This instructional program class comprises any program that prepares individuals to conserve and manage wilderness areas and the flora, fauna, marine and aquatic life therein, and manage wildlife reservations and zoological/aquarium facilities for recreational, commercial, and ecological purposes. These programs include courses in wildlife biology; marine/aquatic biology; environmental science; freshwater and saltwater ecosystems; natural resources management and policy; outdoor recreation and parks management; the design and operation of natural and artificial wildlife habitats; applicable law and regulations; and related administrative and communications skills.

Illustrative example(s)

- hunting and fishing management technology
- wildlife and habitat management
- wildlife management
- wildlife management technology
- wildlife studies
- wildlife technician
- wildlife technology
- wildlife, fish and wildlands management
- wildlife, fish and wildlands science

Exclusion(s)

- fish and wildlife law enforcement (See 03.0208-Environmental/natural resources law enforcement and protective services)
- range science (See 01.1106-Range science and management)
- wildlife biology (See 26.0709-Wildlife biology)

03.99 Natural resources and conservation, other

This subseries comprises instructional program class 03.9999.

03.9999 Natural resources and conservation, other

This instructional program class comprises any program not listed above that relates to Natural resources and conservation.

Illustrative example(s)

- fur trade
- hunting
- hunting and trapping
- other natural resources and conservation
- trapping

Exclusion(s)

- forest recreation technician (See 03.0207-Environmental/natural resource recreation and tourism)
- parks management (See 31.0301-Parks, recreation, and leisure facilities management, general)

04. Architecture and related services

This series comprises instructional programs that prepare individuals for professional practice in the various architecture-related fields and focus on the study of related aesthetic and socioeconomic aspects of the built environment.

04.02 Architecture

This subseries comprises instructional program classes 04.0200 to 04.0299.

04.0200 Pre-architecture studies

This instructional program class comprises any program that is a precursor to an advanced degree in architecture. These programs include courses in architectural design, architectural graphics, architectural history, architectural technology, architectural theory and criticism, building technology, calculus, design studio, human factors, environmental architecture, geometry and trigonometry, physics, and technical drawing.

Illustrative example(s)

- pre-architectural studies
- pre-architecture

- pre-architecture studies

Exclusion(s)

- architecture (See 04.0201-Architecture (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD))

04.0201 Architecture (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD)

This instructional program class comprises any program that prepares individuals for the independent professional practice of architecture and to conduct research in various aspects of the field or that provides instruction in basic principles, methods and concepts related to architecture. These programs include courses in architectural design, history, and theory; building structures and environmental systems; project and site planning; construction; professional responsibilities and standards; and related cultural, social, economic, and environmental issues.

Illustrative example(s)

- architectural science
- architecture
- BArch
- DArch
- MArch

Exclusion(s)

- architectural and building technology (See 04.0902-Architectural and building sciences/technology (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD))
- architectural drafting (See 15.1303-Architectural drafting and architectural CAD/CADD)
- architectural engineering (See 14.0401-Architectural engineering)
- architectural engineering technology (See 15.0101-Architectural engineering technology/technician)
- naval architecture (See 14.2201-Naval architecture and marine engineering)

04.0202 Advanced architectural design (MArch, MA, MS, MSc, DArch, PhD)

This instructional program class comprises any advanced program for architects and related professionals that focuses on theoretical and practical issues in architecture and integrates digital technologies into architectural design, fabrication, and construction. These programs include courses in architectural history and urban theory; 3D digital technologies; construction, design and fabrication methods; and sustainable practices in architecture.

Illustrative example(s)

- advanced architectural design
- architectural design

Exclusion(s)

- architectural design technician (See 04.0901-Architectural technology/technician)
- interior architectural design (See 04.0501-Interior architecture)
- sustainable architectural design (See 04.0403-Sustainable design/architecture)

04.0299 Architecture, other

This instructional program class comprises any program not listed above that relates to Architecture.

Illustrative example(s)

- other architecture

04.03 City/urban, community and regional planning

This subseries comprises instructional program class 04.0301.

04.0301 City/urban, community and regional planning

This instructional program class comprises any program that prepares individuals to apply principles of planning, analysis, and architecture to the development and improvement of urban areas and surrounding regions, and to function as professional planners. These programs include courses in principles of architecture; master plan development; service, communications, and transportation systems design; community and commercial development; zoning; land use planning; applied economics; policy analysis; applicable laws and regulations; and professional responsibilities and managerial duties.

Illustrative example(s)

- city planning
- community and regional planning
- municipal and regional planning
- municipal planning
- regional and urban development
- urban and regional planning
- urban and rural planning
- urban design
- urban planning

Exclusion(s)

- land use planning and development (See 03.0206-Land use planning and management/development)
- real estate development (See 04.1001-Real estate development)
- recreation facilities development (See 31.0301-Parks, recreation, and leisure facilities management, general)
- transportation engineering (See 14.0804-Transportation and highway engineering)
- urban forestry (See 03.0508-Urban forestry)
- urban management (See 44.0401-Public administration, general)
- urban studies (See 45.1201-Urban studies/affairs)
- urban transportation planning (See 44.0403-Public transportation and infrastructure planning/studies)

04.04 Environmental design/architecture

This subseries comprises instructional program classes 04.0401 to 04.0499.

04.0401 Environmental design/architecture, general

This instructional program class comprises any program that prepares individuals to design public and private spaces, indoor and outdoor, for leisure, recreational, commercial, and living purposes, and for professional practice as environmental designers and architects. These programs include courses in the design and planning of public and private open spaces and their relationship to buildings and other aspects of the built environment; facilities management; related aspects of interior design and architecture, landscape architecture, and urban planning; and professional responsibilities and standards.

Illustrative example(s)

- environmental architecture
- environmental design
- environmental design studies

Exclusion(s)

- architectural drafting (See 15.1303-Architectural drafting and architectural CAD/CADD)
- housing and human environments (See 19.0601-Housing and human environments, general)
- industrial design (See 50.0404-Industrial and product design)
- interior decorating (See 19.0605-Home furnishings and equipment installers)
- interior design (See 50.0408-Interior design)
- landscape design (See 01.0605-Landscaping and groundskeeping)
- sustainable architecture (See 04.0403-Sustainable design/architecture)

- sustainable design (See 04.0403-Sustainable design/architecture)
- urban forestry (See 03.0508-Urban forestry)

04.0402 Healthcare environment design/architecture

This instructional program class comprises any program that focuses on the design and performance of healthcare environments to optimize healing. These programs include courses in interior design, architecture, healing sciences, healthcare environments, human-centred design, and healthcare delivery.

Illustrative example(s)

- architecture of healthcare environments
- design of healthcare environments
- healthcare environment architecture
- healthcare environment design

Exclusion(s)

- design for human health (See 30.3701-Design for human health)

04.0403 Sustainable design/architecture

This instructional program class comprises any program that focuses on the application of biological, physical, and social science in the design of sustainable cities and metropolitan regions. These programs include courses in community revitalization, community economic development, construction technology, design innovation, environmental economics, ethics, justice and politics, sustainable materials, sustainability theory, structural materials, and urbanism.

Illustrative example(s)

- sustainable architectural design
- sustainable architecture
- sustainable building design
- sustainable design

Exclusion(s)

- architectural design (See 04.0202-Advanced architectural design (MArch, MA, MS, MSc, DArch, PhD))
- environmental architecture (See 04.0401-Environmental design/architecture, general)
- environmental design (See 04.0401-Environmental design/architecture, general)

04.0499 Environmental design/architecture, other

This instructional program class comprises any program not listed above that relates to Environmental design or environmental architecture.

Illustrative example(s)

- other environmental architecture
- other environmental design

04.05 Interior architecture

This subseries comprises instructional program class 04.0501.

04.0501 Interior architecture

This instructional program class comprises any program that prepares individuals to apply architectural principles in the design of structural interiors for living, recreational, and business purposes and to function as professional interior architects. These programs include courses in architecture, structural systems design, heating and cooling systems, occupational and safety standards, interior design, specific end-use applications, and professional responsibilities and standards.

Illustrative example(s)

- interior architectural design
- interior architecture

Exclusion(s)

- architectural design (See 04.0202-Advanced architectural design (MArch, MA, MS, MSc, DArch, PhD))
- housing and human environments (See 19.0601-Housing and human environments, general)
- interior decorating (See 19.0605-Home furnishings and equipment installers)
- interior design (See 50.0408-Interior design)

04.06 Landscape architecture (BS, BSc, BSLA, BLA, MSLA, MLA, PhD)

This subseries comprises instructional program class 04.0601.

04.0601 Landscape architecture (BS, BSc, BSLA, BLA, MSLA, MLA, PhD)

This instructional program class comprises any program that prepares individuals for the independent professional practice of landscape architecture and research in various aspects of the field. These programs include courses in geology and hydrology; soils, groundcovers, and horticultural elements; project and site planning; landscape design, history, and theory; environmental design; applicable laws and regulations; and professional responsibilities and standards.

Illustrative example(s)

- landscape architectural technology
- landscape architecture
- landscaping architecture

Exclusion(s)

- environmental design (See 04.0401-Environmental design/architecture, general)
- horticultural science (See 01.1103-Horticultural science)
- horticulture (See 01.0601-Applied horticulture/horticulture operations, general)
- landscaping (See 01.0605-Landscaping and groundskeeping)

04.08 Architectural history, criticism, and conservation

This subseries comprises instructional program classes 04.0801 to 04.0899.

04.0801 Architectural history and criticism, general

This instructional program class comprises any general program that focuses on the aesthetic, technical, and social development of the built environment and the architectural profession from earliest times to the present. These programs include courses in the principles of architecture and related fields; art history; historiography of architecture; architectural theory and criticism; related aspects of the history of technology and social and economic history; and various period, cultural, and stylistic specializations.

Illustrative example(s)

- architectural history
- architectural history and criticism
- architectural history and theory
- history and theory of architecture

Exclusion(s)

- art history and criticism (See 50.0703-Art history, criticism and conservation)
- historic preservation and conservation (See 30.1201-Historic preservation and conservation, general)
- historical studies (See 54.0101-History, general)

- history and philosophy of science and technology (See 54.0104-History and philosophy of science and technology)

04.0802 Architectural conservation

This instructional program class comprises any program that focuses on the architectural design principles and building techniques used in historic structures and environments, and the process of saving and restoring old buildings and districts for contemporary use and enjoyment. These programs include courses in architectural history, building conservation techniques, and material conservation.

Illustrative example(s)

- architectural conservation

Exclusion(s)

- art restoration (See 50.0703-Art history, criticism and conservation)
- conservation of heritage buildings (See 30.1201-Historic preservation and conservation, general)

04.0803 Architectural studies

This instructional program class comprises any program that focuses on the study of architecture, cities, landscapes, designed objects, ornament, architectural photography, and material culture in diverse places and time periods, and the social and aesthetic dimensions of contemporary architecture, landscapes, and cities, emphasizing issues of sustainable environments, new forms of urbanism, and the use of digital media for visualization and analysis. These programs include courses in the fundamentals of architecture, design, environmental and sustainability studies, historic preservation, landscape architecture, studio art, and urban affairs and planning.

Illustrative example(s)

- architectural studies
- Bachelor of architectural studies
- Bachelor of architectural studies (BAS)
- Master of architectural studies (MAS)
- Master's of architectural studies

Exclusion(s)

- architecture (See 04.0201-Architecture (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD))

04.0899 Architectural history, criticism, and conservation, other

This instructional program class comprises any program not listed above that relates to Architectural history, criticism, and conservation.

Illustrative example(s)

- architectural history and conservation
- other architectural history, criticism, and conservation

04.09 Architectural sciences and technology

This subseries comprises instructional program classes 04.0901 to 04.0999.

04.0901 Architectural technology/technician

This instructional program class comprises any program that prepares individuals to assist architects in developing plans and related documentation and in performing architectural office services. These programs include courses in architectural drafting, computer-assisted drafting and design, construction methods and materials, environmental systems, building codes and standards, structural principles, cost estimation, planning documentation, visual communication skills, display production, and architectural office management.

Illustrative example(s)

- architectural construction technology
- architectural design and technology
- architectural design technician
- architectural design technology
- architectural technician
- architectural technologist
- architectural technology
- architectural technology and design
- architecture design and technology

Exclusion(s)

- architectural and building technology (See 04.0902-Architectural and building sciences/technology (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD))
- architectural design (See 04.0202-Advanced architectural design (MArch, MA, MS, MSc, DArch, PhD))
- architectural drafting (See 15.1303-Architectural drafting and architectural CAD/CADD)
- architectural engineering (See 14.0401-Architectural engineering)
- architectural engineering technology (See 15.0101-Architectural engineering technology/technician)
- naval architecture (See 14.2201-Naval architecture and marine engineering)
- naval architecture technology (See 15.9999-Engineering/engineering-related technologies/technicians, other)
- real estate development (See 04.1001-Real estate development)

04.0902 Architectural and building sciences/technology (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD)

This instructional program class comprises any program that focuses on the application of advanced technology to building design and construction, retrofitting existing buildings, and efficient operation of buildings, including lighting and daylight design, acoustics, solar design, building conservation, and energy-conscious design. These programs include courses in architecture, building technology, civil and structural engineering, mechanical engineering, environmental control systems, sustainability, and computer tools and applications.

Illustrative example(s)

- architectural and building sciences
- architectural and building technology
- building science

Exclusion(s)

- architectural engineering technology (See 15.0101-Architectural engineering technology/technician)
- architectural science (See 04.0201-Architecture (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD))
- architectural technology (See 04.0901-Architectural technology/technician)
- construction engineering (See 14.3301-Construction engineering)

04.0999 Architectural sciences and technology, other

This instructional program class comprises any program not listed above that relates to Architectural sciences and technology.

Illustrative example(s)

- other architectural sciences and technology

04.10 Real estate development

This subseries comprises instructional program class 04.1001.

04.1001 Real estate development

This instructional program class comprises any program that prepares individuals to create and redevelop housing, offices, retail centres, and industrial sites. These programs include courses in architectural design and construction, historic preservation, landscape architecture, urban planning and design, business, real estate and land use law, public policy, and engineering.

Illustrative example(s)

- real estate development
- real property development

Exclusion(s)

- architectural design (See 04.0202-Advanced architectural design (MArch, MA, MS, MSc, DArch, PhD))
- land use planning and development (See 03.0206-Land use planning and management/development)
- real estate sales (See 52.1501-Real estate)
- recreation facilities development (See 31.0301-Parks, recreation, and leisure facilities management, general)
- urban planning (See 04.0301-City/urban, community and regional planning)

04.99 Architecture and related services, other

This subseries comprises instructional program class 04.9999.

04.9999 Architecture and related services, other

This instructional program class comprises any program not listed above that relates to Architecture and related services.

Illustrative example(s)

- architectural studies in conservation and sustainability
- other architecture and related services

05. Area, ethnic, cultural, gender, and group studies

This series comprises instructional programs that focus on the defined areas, regions, and countries of the world; defined minority groups within and across societies; and issues relevant to collective gender and group experience.

05.01 Area studies

This subseries comprises instructional program classes 05.0101 to 05.0199.

05.0101 African studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples of the African continent, usually with an emphasis on Africa south of the Sahara, and including the African diasporas overseas.

Illustrative example(s)

- African studies

Exclusion(s)

- African American studies (See 05.0201-African American/Black studies)
- African history (See 54.0199-History, other)
- African languages and literature (See 16.0201-African languages, literatures and linguistics)

05.0102 American/United States studies/civilization

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of the United States and its pre-Columbian and colonial predecessors, and including the flow of immigrants from other societies.

Illustrative example(s)

- American civilization
- American studies
- United States civilization
- United States studies

Exclusion(s)

- African American studies (See 05.0201-African American/Black studies)
- American literature (See 23.1402-American literature)
- American politics (See 45.1002-American government and politics (United States))
- Asian American studies (See 05.0206-Asian American/Asian Canadian studies)
- Hispanic American studies (See 05.0203-Hispanic American, Puerto Rican and Mexican American/Chicano studies)
- Indigenous studies (See 05.0202-Indigenous peoples of the Americas studies)
- United States history (See 54.0102-American history (United States))

05.0103 Asian studies/civilization

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples of the Asian continent, including the study of the Asian diasporas overseas.

Illustrative example(s)

- Asian Area studies
- Asian civilization
- Asian studies

Exclusion(s)

- Asia Pacific studies (See 05.0199-Area studies, other)
- Asian history (See 54.0106-Asian history)
- Central Asian studies (See 05.0120-Ural-Altaic and Central Asian studies)
- East Asian studies (See 05.0104-East Asian studies)
- South Asian studies (See 05.0112-South Asian studies)
- Southeast Asian studies (See 05.0113-Southeast Asian studies)

05.0104 East Asian studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples of East Asia, defined as including China, Korea, Japan, Mongolia, Taiwan, Tibet, related borderlands and island groups, and including the study of the East Asian diasporas overseas.

Illustrative example(s)

- East Asian studies

Exclusion(s)

- Asian history (See 54.0106-Asian history)
- East Asian languages and literature (See 16.0300-East Asian languages, literatures and linguistics, general)
- Korean (See 16.0303-Korean language and literature)

05.0105 Russian, Central European, East European and Eurasian studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of the region encompassing Russia, Central Europe, Eastern Europe, and Eurasia, including the Balkan, Baltic, Caucasus, and Central Asian states that were republics of the former Soviet Union.

Illustrative example(s)

- Central and Eastern European studies
- Central European studies
- CIS studies
- Commonwealth of Independent States (CIS) studies
- East European studies
- Eastern European studies
- Russian and East European studies
- Russian and Eurasian studies
- Soviet and East European studies

Exclusion(s)

- Balkan studies (See 05.0116-Balkan studies)
- Baltic studies (See 05.0117-Baltic studies)
- Polish studies (See 05.0129-Polish studies)
- Russian studies (See 05.0110-Russian studies)
- Slavic and East European studies (See 05.0199-Area studies, other)
- Ukrainian studies (See 05.0132-Ukraine studies)

05.0106 European studies/civilization

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples of the European continent, including the study of European migration patterns and Colonial Empires.

Illustrative example(s)

- European civilization
- European integration studies
- European studies
- modern European studies

Exclusion(s)

- European history (See 54.0103-European history)
- French studies (See 05.0124-French studies)
- German studies (See 05.0125-German studies)
- Italian studies (See 05.0126-Italian studies)
- Scandinavian studies (See 05.0111-Scandinavian studies)
- Spanish studies (See 05.0130-Spanish and Iberian studies)
- Western European studies (See 05.0114-Western European studies)

05.0107 Latin American studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the Hispanic peoples of the North and South American continents outside Canada and the United States, including the study of the pre-Columbian period and the flow of immigrants from other societies.

Illustrative example(s)

- Latin American studies

Exclusion(s)

- Caribbean studies (See 05.0119-Caribbean studies)
- Cuban American studies (See 05.0203-Hispanic American, Puerto Rican and Mexican American/Chicano studies)
- Latin American and Caribbean studies (See 05.0134-Latin American and Caribbean studies)

05.0108 Near and Middle Eastern studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples of North Africa, Southwestern Asia, Asia Minor, and the Arabian Peninsula, related borderlands and island groups, and including emigrant and immigrant groups.

Illustrative example(s)

- Arab studies
- Middle Eastern studies
- modern Middle Eastern studies
- Near and Middle Eastern civilizations
- Near and Middle Eastern studies
- Near Eastern studies

Exclusion(s)

- African studies (See 05.0101-African studies)
- Asian studies (See 05.0103-Asian studies/civilization)
- Islamic studies (See 38.0205-Islamic studies)
- Jewish studies (See 38.0206-Jewish/Judaic studies)
- Middle East history (See 54.0199-History, other)

05.0109 Pacific/Australasian/Oceanian studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples of Australasia and the Pacific Ocean, related island groups and bordering coastal regions, and including precolonial and postcolonial migration patterns.

Illustrative example(s)

- Australasian studies
- Australian studies
- Melanesian studies
- Micronesian studies
- New Zealand studies
- Oceanian studies
- Pacific studies
- Polynesian studies
- studies of Oceania

Exclusion(s)

- Asia Pacific studies (See 05.0199-Area studies, other)
- Asian studies (See 05.0103-Asian studies/civilization)
- Indo-Pacific languages (See 16.1401-Australian/Oceanian/Pacific languages, literatures and linguistics)
- Pacific Rim studies (See 05.0199-Area studies, other)

05.0110 Russian studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples of the Russian Federation and its Soviet, Czarist, and medieval predecessors and related borderlands.

Illustrative example(s)

- Russian studies
- Soviet studies

Exclusion(s)

- European and Russian studies (See 05.0199-Area studies, other)
- Russian history (See 54.0103-European history)
- Russian language and literature (See 16.0402-Russian language and literature)
- Soviet and East European studies (See 05.0105-Russian, Central European, East European and Eurasian studies)

05.0111 Scandinavian studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples of Scandinavia, defined as Northern Europe including Denmark, Finland, Iceland, Norway, Sweden, and related island groups (e.g., Greenland), and borderlands.

Illustrative example(s)

- Scandinavian studies

Exclusion(s)

- European history (See 54.0103-European history)
- Germanic languages (See 16.0500-Germanic languages, literatures and linguistics, general)
- Scandinavian languages, literature and linguistics (See 16.0502-Scandinavian languages, literatures and linguistics)

05.0112 South Asian studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples of South Asia, defined as including Afghanistan, India, the Maldives, Myanmar (Burma), Pakistan, and Sri Lanka and related borderlands and island groups; and including the study of migration patterns and overseas diasporas.

Illustrative example(s)

- Indian/South Asian studies
- Indology
- South Asian studies

Exclusion(s)

- Asian history (See 54.0106-Asian history)
- Asian studies (See 05.0103-Asian studies/civilization)
- South Asian languages (See 16.0700-South Asian languages, literatures and linguistics, general)

05.0113 Southeast Asian studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples of Southeast Asia, defined as including Brunei, Cambodia, Indonesia, Laos, Malaysia, the Philippines, Singapore, Thailand, and Viet Nam; related borderlands and island groups; and including the study of migration patterns and overseas diasporas.

Illustrative example(s)

- Southeast Asian studies

Exclusion(s)

- Asian history (See 54.0106-Asian history)

- Asian studies (See 05.0103-Asian studies/civilization)
- Southeast Asian languages (See 16.1400-Southeast Asian languages, literatures and linguistics, general)

05.0114 Western European studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples of historical Western Europe, defined as including Britain, Ireland, France, the Low Countries, the Iberian Peninsula, Italy, the Western Mediterranean, and related island groups and borderlands.

Illustrative example(s)

- West European studies
- Western European studies

Exclusion(s)

- European history (See 54.0103-European history)
- European studies (See 05.0106-European studies/civilization)
- Irish studies (See 05.0133-Irish studies)

05.0115 Canadian studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples of Canada and its pre-Columbian, colonial, and pre-Confederation predecessors, including immigrant flows and related borderlands and island groups.

Illustrative example(s)

- Canadian studies

Exclusion(s)

- Canadian government and politics (See 45.1003-Canadian government and politics)
- Canadian history (See 54.0107-Canadian history)
- Canadian literature (in English) (See 23.1403-Canadian literature, English)
- French studies (See 05.0124-French studies)
- Quebec studies (See 05.0122-Regional studies (U.S., Canadian, foreign))

05.0116 Balkan studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples inhabiting the Balkan Peninsula and associated island groups and borderlands, Southern Slavic and non-Slavic, during the medieval, Ottoman, and modern periods.

Illustrative example(s)

- Balkan studies

Exclusion(s)

- East European studies (See 05.0105-Russian, Central European, East European and Eurasian studies)
- European history (See 54.0103-European history)
- Slavic and East European studies (See 05.0199-Area studies, other)

05.0117 Baltic studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples inhabiting the coastlands of the Baltic Sea, including Baltic, Germanic, Scandinavian, and Slavic populations, related borderlands and island groups, and problems of cultural survival and assimilation.

Illustrative example(s)

- Baltic studies

Exclusion(s)

- Baltic languages (See 16.0401-Baltic languages, literatures and linguistics)
- Central European studies (See 05.0105-Russian, Central European, East European and Eurasian studies)
- European history (See 54.0103-European history)
- European studies (See 05.0106-European studies/civilization)

05.0118 Slavic studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the Slavic peoples inhabiting Europe and Asia, and immigrant groups elsewhere, including the study of the emergence and migration patterns of Slavic culture, languages, and populations.

Illustrative example(s)

- Slavic studies

Exclusion(s)

- East European studies (See 05.0105-Russian, Central European, East European and Eurasian studies)
- European history (See 54.0103-European history)
- Slavic and East European studies (See 05.0199-Area studies, other)
- Slavic languages and literature (See 16.0400-Slavic languages, literatures and linguistics, general)

05.0119 Caribbean studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples inhabiting the major islands and archipelagos of the Caribbean Sea and related coastal borderlands, including immigration patterns and pre-Columbian, colonial, and modern societies.

Illustrative example(s)

- Caribbean studies

Exclusion(s)

- African American studies (See 05.0201-African American/Black studies)
- Indigenous studies (See 05.0202-Indigenous peoples of the Americas studies)
- Latin American and Caribbean studies (See 05.0134-Latin American and Caribbean studies)

05.0120 Ural-Altai and Central Asian studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples and countries of Inner/Central Asia, including the Turkic and Mongolian inhabitants of the Caspian, Amur, Tien Shan, Baikal, Gobi, Siberian, and Manchurian areas and the historical Silk Road, in terms of their past and present development.

Illustrative example(s)

- Central Asian studies
- Ural-Altai studies

Exclusion(s)

- Altaic (See 16.1599-Turkic, Uralic-Altai, Caucasian and Central Asian languages, literatures and linguistics, other)
- Asian history (See 54.0106-Asian history)
- East Asian studies (See 05.0104-East Asian studies)
- Mongolian (See 16.1504-Mongolian language and literature)

- Russian studies (See 05.0110-Russian studies)
- Turkish (See 16.1501-Turkish language and literature)

05.0121 Commonwealth studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples and countries comprising components of the historical British Empire and modern British Commonwealth, including migration patterns, shared sociocultural and political features and problems, and contemporary relations.

Illustrative example(s)

- Commonwealth studies

Exclusion(s)

- British history (See 54.0103-European history)
- English literature (See 23.1401-English literature, general)
- Irish studies (See 05.0133-Irish studies)
- Western European studies (See 05.0114-Western European studies)

05.0122 Regional studies (U.S., Canadian, foreign)

This instructional program class comprises any program that focuses on the defined geographic subregions and subcultures within modern and historical countries and societies. These programs include courses on such topics as Acadian Studies, French Canadian and Quebec Studies, Southern (U.S.) Studies, New England Studies, Southwestern Studies, and others.

Illustrative example(s)

- Atlantic Canada studies
- island studies
- Quebec studies
- regional studies

Exclusion(s)

- American studies (See 05.0102-American/United States studies/civilization)
- Appalachian studies (See 05.0135-Appalachian studies)
- Asian American studies (See 05.0206-Asian American/Asian Canadian studies)
- Black Canadian studies (See 05.0201-African American/Black studies)
- Canadian studies (See 05.0115-Canadian studies)
- Hispanic American studies (See 05.0203-Hispanic American, Puerto Rican and Mexican American/Chicano studies)
- Indigenous studies (See 05.0202-Indigenous peoples of the Americas studies)
- Northern studies (See 05.0136-Arctic studies)

05.0123 Chinese studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of one or more of the peoples of present-day China and its historical predecessors, related borderlands and island groups, and the overseas Chinese diasporas.

Illustrative example(s)

- Chinese studies

Exclusion(s)

- Asian studies (See 05.0103-Asian studies/civilization)
- Chinese history (See 54.0106-Asian history)
- Chinese language and literature (See 16.0301-Chinese language and literature)

05.0124 French studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of France, other Francophone countries inside and outside Europe, and the French colonial experience and the associated French minorities around the world.

Illustrative example(s)

- French studies

Exclusion(s)

- Canadian literature (in French) (See 55.1403-Canadian literature, French)
- Canadian studies (See 05.0115-Canadian studies)
- French language and literature (See 55.0101-French language and literature, general)
- literature of France and the French community, French (See 55.1404-Literature of France and the French community, French^{CAN})
- Quebec studies (See 05.0122-Regional studies (U.S., Canadian, foreign))
- Western European studies (See 05.0114-Western European studies)

05.0125 German studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of Germany, the neighbouring countries of Austria and Switzerland, the German minorities in neighbouring European countries, and the historical areas of German influence across Europe and overseas.

Illustrative example(s)

- German studies
- Germanic studies

Exclusion(s)

- German history (See 54.0103-European history)
- German language and literature (See 16.0501-German language and literature)
- Western European studies (See 05.0114-Western European studies)

05.0126 Italian studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of modern Italy and its predecessors on the Italian Peninsula, including overseas migrations of Italian peoples.

Illustrative example(s)

- Italian studies

Exclusion(s)

- European history (See 54.0103-European history)
- European studies (See 05.0106-European studies/civilization)
- Italian (See 16.0902-Italian language and literature)

05.0127 Japanese studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of the peoples of Japan, and related island groups and coastal neighbours.

Illustrative example(s)

- Japanese studies

Exclusion(s)

- Asian history (See 54.0106-Asian history)
- East Asian studies (See 05.0104-East Asian studies)
- Japanese (See 16.0302-Japanese language and literature)

05.0128 Korean studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of the peoples of Korea, including related island groups and borderlands.

Illustrative example(s)

- Korean studies

Exclusion(s)

- East Asian studies (See 05.0104-East Asian studies)
- Korean (See 16.0303-Korean language and literature)
- Korean history (See 54.0106-Asian history)

05.0129 Polish studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of Poland and the current and historical inhabitants of the Polish lands, including borderlands, from earliest times to the present.

Illustrative example(s)

- Polish studies

Exclusion(s)

- Central European studies (See 05.0105-Russian, Central European, East European and Eurasian studies)
- European and Russian studies (See 05.0199-Area studies, other)
- European history (See 54.0103-European history)
- Polish (See 16.0407-Polish language and literature)

05.0130 Spanish and Iberian studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of the peoples of the Iberian Peninsula and related island groups and border regions from earliest times to the present, with particular emphasis on the development of Spain and Portugal but including other historical and current cultures.

Illustrative example(s)

- Hispanic studies
- Iberian studies
- Spanish studies

Exclusion(s)

- European history (See 54.0103-European history)
- Portuguese language and literature (See 16.0904-Portuguese language and literature)
- Spanish language and literature (See 16.0905-Spanish language and literature)
- Western European studies (See 05.0114-Western European studies)

05.0131 Tibetan studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of Tibet and its borderlands, with emphasis on both premodern and modern Tibet and associated religious and exile movements.

Illustrative example(s)

- Tibetan studies

Exclusion(s)

- Asian history (See 54.0106-Asian history)
- East Asian studies (See 05.0104-East Asian studies)
- Tibetan language and literature (See 16.0304-Tibetan language and literature)

05.0132 Ukraine studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of the Ukraine and its inhabitants, and related border regions, from earliest times to the present.

Illustrative example(s)

- Ukrainian studies

Exclusion(s)

- East European studies (See 05.0105-Russian, Central European, East European and Eurasian studies)
- European history (See 54.0103-European history)
- Ukrainian language and literature (See 16.0410-Ukrainian language and literature)

05.0133 Irish studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of Ireland and the Irish diaspora, from the early Christian period to the present.

Illustrative example(s)

- Irish studies

Exclusion(s)

- Celtic languages and literature (See 16.1301-Celtic languages, literatures and linguistics)
- Commonwealth studies (See 05.0121-Commonwealth studies)
- Western European studies (See 05.0114-Western European studies)

05.0134 Latin American and Caribbean studies

This instructional program class comprises any integrated program that focuses on the history, society, politics, culture, and economics of the peoples and countries of the Latin American and Caribbean region.

Illustrative example(s)

- Latin American and Caribbean studies

Exclusion(s)

- Caribbean studies (See 05.0119-Caribbean studies)
- Latin American studies (See 05.0107-Latin American studies)

05.0135 Appalachian studies

This instructional program class comprises any program that focuses on the history, sociology, culture, and economics of the Appalachian region of the United States and/or Canada. These programs include courses in contemporary issues in Appalachia, political economy of Appalachia, community-based research, ethnomusicology, and oral and written languages of Appalachia.

Illustrative example(s)

- Appalachian studies

Exclusion(s)

- American studies (See 05.0102-American/United States studies/civilization)
- Canadian studies (See 05.0115-Canadian studies)
- regional studies (See 05.0122-Regional studies (U.S., Canadian, foreign))

05.0136 Arctic studies

This instructional program class comprises any program that focuses on the history, society, politics, culture, and economics of the Arctic region.

Illustrative example(s)

- Arctic and Northern studies
- Arctic studies
- circumpolar studies
- Northern studies

Exclusion(s)

- American studies (See 05.0102-American/United States studies/civilization)
- Canadian studies (See 05.0115-Canadian studies)
- Indigenous and Northern studies (See 05.0202-Indigenous peoples of the Americas studies)
- northern international development (See 45.0604-Development economics and international development)
- regional studies (See 05.0122-Regional studies (U.S., Canadian, foreign))

05.0199 Area studies, other

This instructional program class comprises any program not listed above that relates to Area studies.

Illustrative example(s)

- Asia Pacific studies
- European and Russian studies
- European, Russian and Eurasian studies
- other area studies
- Pacific and Asian studies
- Pacific Rim studies
- Slavic and East European studies

Exclusion(s)

- intercultural studies (See 30.2301-Intercultural/multicultural and diversity studies)
- international studies (See 30.2001-International/globalization studies)

05.02 Ethnic, cultural minority, gender, and group studies

This subseries comprises instructional program classes 05.0201 to 05.0299.

05.0200 Ethnic studies

This instructional program class comprises any program that focuses on the interdisciplinary and comparative study of the history, sociology, politics, culture, and economics of various racial and ethnic groups, including African Americans, Indigenous peoples and various ethnic groups.

Illustrative example(s)

- ethnic and pluralism studies
- ethnic studies
- race and ethnicity
- race, ethnicity and indigeneity

Exclusion(s)

- Asian American studies (See 05.0206-Asian American/Asian Canadian studies)
- Black Canadian studies (See 05.0201-African American/Black studies)
- comparative ethnic studies (See 05.0212-Comparative group studies)
- cultural studies (See 30.2601-Cultural studies/critical theory and analysis)
- Hispanic American studies (See 05.0203-Hispanic American, Puerto Rican and Mexican American/Chicano studies)
- Indigenous studies (See 05.0202-Indigenous peoples of the Americas studies)

05.0201 African American/Black studies

This instructional program class comprises any program that focuses on the history, sociology, politics, culture, and economics of the North American peoples descended from the African diaspora; focusing on the United States, Canada, and the Caribbean, but also including reference to Latin American elements of the diaspora.

Illustrative example(s)

- African American studies
- African Canadian studies
- African-American studies
- African-Canadian studies
- Afro-American studies
- Afro-Canadian studies
- Black American studies
- Black Canadian studies
- Black studies

Exclusion(s)

- African languages and literature (See 16.0201-African languages, literatures and linguistics)
- African studies (See 05.0101-African studies)
- American studies (See 05.0102-American/United States studies/civilization)
- comparative ethnic studies (See 05.0212-Comparative group studies)

05.0202 Indigenous peoples of the Americas studies

This instructional program class comprises any program that focuses on the history, sociology, politics, culture, and economics of the Indigenous peoples of the Americas from earliest times until the present, with particular emphasis on U.S. and Canadian populations and their problems but including reference to Caribbean and Latin American native peoples.

Illustrative example(s)

- Aboriginal and Northern studies
- Aboriginal studies
- First Nations studies
- Indigenous and Northern studies
- Indigenous studies
- Inuit studies
- Native American studies
- Native studies
- Northern First Nations studies
- Nunavut Sivuniksavut

Exclusion(s)

- American studies (See 05.0102-American/United States studies/civilization)
- Canadian studies (See 05.0115-Canadian studies)
- comparative ethnic studies (See 05.0212-Comparative group studies)

- Indigenous languages and literature (See 16.1001-Indigenous languages, literatures, and linguistics of the Americas)
- Northern studies (See 05.0136-Arctic studies)

05.0203 Hispanic American, Puerto Rican and Mexican American/Chicano studies

This instructional program class comprises any program that focuses on the history, sociology, politics, culture, and economics of one or more of the Hispanic American immigrant populations within the U.S., including Mexican American Studies, Cuban American Studies, Puerto Rican Studies, and others.

Illustrative example(s)

- Chicano studies
- Cuban American studies
- Hispanic American studies
- Mexican American studies
- Puerto Rican studies

Exclusion(s)

- comparative ethnic studies (See 05.0212-Comparative group studies)
- Latin American studies (See 05.0107-Latin American studies)
- Spanish language and literature (See 16.0905-Spanish language and literature)
- Spanish studies (See 05.0130-Spanish and Iberian studies)

05.0206 Asian American/Asian Canadian studies

This instructional program class comprises any program that focuses on the history, sociology, politics, culture, and economics of Asian population groups who have immigrated to the United States and Canada, or sought refugee asylum, from the colonial period to the present, and including Chinese Americans/Canadians, Japanese Americans/Canadians, Korean Americans/Canadians, Vietnamese Americans/Canadians, Cambodian Americans/Canadians, and others.

Illustrative example(s)

- Asian American studies
- Asian Canadian studies
- Chinese American studies
- Chinese Canadian studies
- Filipino American studies
- Filipino Canadian studies
- Japanese American studies
- Japanese Canadian studies
- Vietnamese American studies
- Vietnamese Canadian studies

Exclusion(s)

- American studies (See 05.0102-American/United States studies/civilization)
- Asian studies (See 05.0103-Asian studies/civilization)
- comparative ethnic studies (See 05.0212-Comparative group studies)
- East Asian languages and literature (See 16.0300-East Asian languages, literatures and linguistics, general)
- Oriental languages (See 16.9999-Indigenous and foreign languages, literatures and linguistics, other)

05.0207 Women's studies

This instructional program class comprises any program that focuses on the history, sociology, politics, culture, and economics of women, and the development of modern feminism in relation to the roles played by women in different periods and locations in North America and the world. Programs may focus on literature, philosophy, and the arts as much as on social studies and policy.

Illustrative example(s)

- feminist studies
- women's and gender studies
- women's studies

Exclusion(s)

- gender studies (See 05.0299-Ethnic, cultural minority, gender, and group studies, other)
- political history (See 30.4601-History and political science)

05.0208 Gay/lesbian studies

This instructional program class comprises any program that focuses on homosexuality in history, society, politics, and cultural life; usually with an emphasis on the modern emergence of gays and lesbians as a sociocultural minority movement, the identification of social, literary, and artistic themes and the definition of, and public policy and legal issues surrounding the gay and lesbian community.

Illustrative example(s)

- gay and lesbian studies
- gay studies
- lesbian studies

Exclusion(s)

- intercultural studies (See 30.2301-Intercultural/multicultural and diversity studies)

05.0209 Folklore studies

This instructional program class comprises any program that focuses on the study of creativity and aesthetic expression in everyday life, as expressed in narrative, literature, performing arts, culture, work, family and community.

Illustrative example(s)

- folklore and folklife
- folklore and mythology
- folklore studies

05.0210 Disability studies

This instructional program class comprises any program that focuses on the nature, meaning, and consequences of what it is to be defined as disabled and explores the historical, cultural, economic, physiological, and socio-political dynamics of disability. These programs include courses in disability rights, legal issues, and public policy; literature, philosophy, and the arts; and/or research in the social sciences, education, and health sciences addressing social and experiential aspects of disability.

Illustrative example(s)

- disability studies

Exclusion(s)

- developmental services worker (DSW) (See 19.0710-Developmental services worker)

05.0211 Deaf studies

This instructional program class comprises any program that focuses on the sociological, historical and linguistic aspects of the deaf and hearing impaired, and that prepares individuals to work with the deaf and hearing impaired. These programs include courses in sign language, deaf studies, deaf culture, structure of sign language, history of the deaf community, and civil rights of deaf people.

Illustrative example(s)

- deaf studies
- deaf studies and American Sign Language
- deaf studies and Quebec Sign Language
- deaf studies and sign language

Exclusion(s)

- American Sign Language (See 16.1601-American Sign Language (ASL)/Langue des signes québécoise (LSQ))
- education of the deaf (See 13.1003-Education/teaching of individuals with hearing impairments including deafness)

05.0212 Comparative group studies

This instructional program class comprises any program that focuses on the comparative study of the history, literature, sociology, politics, culture, and economics of different groups such as racial, gender, sexual, class, ethnic, geographical, and national. These programs include courses in comparative studies, comparative literature, critical race theory, cultural anthropology, cultural studies, religious studies, science studies, social and cultural theory, urban studies, and visual culture.

Illustrative example(s)

- comparative ethnic studies
- comparative group studies

Exclusion(s)

- comparative cultural studies (See 30.2601-Cultural studies/critical theory and analysis)
- ethnic studies (See 05.0200-Ethnic studies)

05.0299 Ethnic, cultural minority, gender, and group studies, other

This instructional program class comprises any program not listed above that relates to Ethnic, cultural minority, gender, and group studies.

Illustrative example(s)

- diaspora studies
- gender studies
- other ethnic, cultural minority, gender, and group studies
- women's, gay and lesbian studies, integrated

Exclusion(s)

- cultural studies (See 30.2601-Cultural studies/critical theory and analysis)
- intercultural studies (See 30.2301-Intercultural/multicultural and diversity studies)
- international studies (See 30.2001-International/globalization studies)

05.99 Area, ethnic, cultural, gender, and group studies, other

This subseries comprises instructional program class 05.9999.

05.9999 Area, ethnic, cultural, gender, and group studies, other

This instructional program class comprises any program not listed above that relates to Area, ethnic, cultural, gender, and group studies.

Illustrative example(s)

- area and group studies
- comparative culture and area studies

- other area, ethnic, cultural, gender, and group studies

Exclusion(s)

- cultural studies (See 30.2601-Cultural studies/critical theory and analysis)
- intercultural studies (See 30.2301-Intercultural/multicultural and diversity studies)
- international studies (See 30.2001-International/globalization studies)

09. Communication, journalism and related programs

This series comprises instructional programs that focus on how messages in various media are produced, used, and interpreted within and across different contexts, channels, and cultures, and that prepare individuals to apply communication knowledge and skills professionally.

09.01 Communication and media studies

This subseries comprises instructional program classes 09.0101 to 09.0199.

09.0100 Communication, general

This instructional program class comprises any program that focuses on the comprehensive study of communication, and that spans the study of mass communication/media studies, old and new media technologies, social and political applications, and speech communication and rhetoric. These programs include courses in interpersonal, group, organizational, and intercultural communication; theories of communication; critical thinking, argumentation, and persuasion; written communication; printed, electronic, and digital media; rhetorical tradition and criticism; media, society, and culture; consequences and effects of mass media; media social science and criticism; and quantitative and qualitative methods of inquiry.

Illustrative example(s)

- communication
- communication sciences
- communication studies
- communications

Exclusion(s)

- agricultural communications (See 01.0802-Agricultural communication/journalism)
- applied communication (See 09.0900-Public relations, advertising and applied communication, general)
- business communications (See 52.0501-Business/corporate communications, general)
- communication disorders (See 51.0201-Communication sciences and disorders, general)
- communications engineering (See 14.1004-Telecommunications engineering)
- communications engineering technology (See 15.0305-Telecommunications technology/technician)
- communications technology (See 10.0105-Communications technology/technician)
- digital communication and multimedia (See 09.0702-Digital communication and media/multimedia)
- health communication (See 09.0905-Health communication)
- international communication (See 09.0907-International and intercultural communication)
- marketing communications (See 09.0903-Advertising)
- mass communication (See 09.0102-Mass communication/media studies)
- organizational communication (See 09.0901-Organizational communication, general)
- political communication (See 09.0904-Political communication)
- scientific communication (See 09.0908-Technical and scientific communication)
- speech communication (See 09.0101-Speech communication and rhetoric)
- sports communication (See 09.0906-Sports communication)

09.0101 Speech communication and rhetoric

This instructional program class comprises any program that focuses on the scientific, humanistic, and critical study of human communication in a variety of formats, media, and contexts. These programs include courses in the theory and practice of interpersonal, group, organizational, professional, and intercultural communication;

speaking and listening; verbal and non-verbal interaction; rhetorical theory and criticism; performance studies; argumentation and persuasion; technologically mediated communication; popular culture; and various contextual applications.

Illustrative example(s)

- speech communication
- speech communication and rhetoric

Exclusion(s)

- agricultural communications (See 01.0802-Agricultural communication/journalism)
- business communications (See 52.0501-Business/corporate communications, general)
- communication sciences and disorders (See 51.0201-Communication sciences and disorders, general)
- communication studies (See 09.0100-Communication, general)
- communications technology (See 10.0105-Communications technology/technician)
- English speech and rhetorical studies (See 23.1304-English rhetoric and composition)
- French rhetoric and composition (See 55.1304-French rhetoric and composition^{CAN})
- health communication (See 09.0905-Health communication)
- literacy and communication skills (not for credit) (See 32.0108-Literacy and communication skills (not for credit))
- organizational communication (See 09.0901-Organizational communication, general)
- political communication (See 09.0904-Political communication)
- speech therapy (See 51.0203-Speech-language pathology/pathologist)

09.0102 Mass communication/media studies

This instructional program class comprises any program that focuses on the analysis and criticism of media institutions and media texts, how people experience and understand media content, and the roles of media in producing and transforming culture. These programs include courses in communications regulation, law, and policy; media history; media aesthetics, interpretation, and criticism; the social and cultural effects of mass media; cultural studies; the economics of media industries; visual and media literacy; and the psychology and behavioural aspects of media messages, interpretation, and utilization.

Illustrative example(s)

- mass communication
- mass media
- media communications
- media studies

Exclusion(s)

- communication studies (See 09.0100-Communication, general)
- educational media (See 13.0501-Educational/instructional technology)
- film studies (See 50.0601-Film/cinema/video studies)
- multimedia art (See 50.0706-Intermedia/multimedia)
- visual communications (See 50.0401-Design and visual communications, general)

09.0199 Communication and media studies, other

This instructional program class comprises any program not listed above that relates to Communication and media studies.

Illustrative example(s)

- other communication and media studies
- social communication

Exclusion(s)

- family and consumer sciences communications (See 19.0202-Family and consumer sciences/human sciences communication)

09.04 Journalism

This subseries comprises instructional program classes 09.0401 to 09.0499.

09.0401 Journalism, general

This instructional program class comprises any program that focuses on the theory and practice of gathering, processing, and delivering news and that prepares individuals to be professional print journalists, news editors, and news managers. These programs include courses in news writing and editing; reporting; photojournalism; layout and graphic design; journalism law and policy; professional standards and ethics; research methods; and journalism history and criticism.

Illustrative example(s)

- international journalism
- journalism
- online journalism
- print journalism

Exclusion(s)

- agricultural journalism (See 01.0802-Agricultural communication/journalism)
- broadcast journalism (See 09.0402-Broadcast journalism)
- English technical and professional writing (See 23.1303-English professional, technical, business, and scientific writing)
- French technical and business writing (See 55.1303-French professional, technical, business, and scientific writing)
- international and intercultural communication (See 09.0907-International and intercultural communication)
- sports communication (See 09.0906-Sports communication)

09.0402 Broadcast journalism

This instructional program class comprises any program that focuses on the methods and techniques for reporting, producing, and delivering news and news programs via radio, television, and video/film media; and that prepares individuals to be professional broadcast journalists, editors, producers, directors, and managers. These programs include courses in the principles of broadcast technology; broadcast reporting; on- and off-camera and microphone procedures and techniques; program, sound, and video/film editing; program design and production; media law and policy; and professional standards and ethics.

Illustrative example(s)

- broadcast journalism
- radio journalism

Exclusion(s)

- broadcast technology (See 10.0202-Radio and television broadcasting technology/technician)
- photojournalism (See 09.0404-Photojournalism)
- print journalism (See 09.0401-Journalism, general)
- radio and television (See 09.0701-Radio and television)
- sports communication (See 09.0906-Sports communication)

09.0404 Photojournalism

This instructional program class comprises any program that focuses on the use of still and motion photography in journalism and prepares individuals to function as news photographers and photographic editors. These programs

include courses in photography, journalism, studio procedures and techniques, camera and equipment operation and technique, news editing, print and film editing, news scene composition, subject surveillance, media law and policy, news team field operations, and professional standards and ethics.

Illustrative example(s)

- photojournalism

Exclusion(s)

- commercial photography (See 50.0406-Commercial photography)
- creative photography (See 50.0605-Photography)
- photofinishing (See 10.0201-Photographic and film/video technology/technician)
- sports communication (See 09.0906-Sports communication)

09.0405 Business and economic journalism

This instructional program class comprises any program that prepares individuals to become journalists who gather, analyse, and synthesize verbal and visual information to communicate stories related to business and economics across multiple media platforms. These programs include courses in accounting, business, business and economic reporting, business law, economics, finance, financial accounting and reporting, ethics, journalistic research methods and resources, and journalism skills and techniques.

Illustrative example(s)

- business and economic journalism
- business and economic reporting
- business journalism
- economic journalism
- financial journalism

09.0406 Cultural journalism

This instructional program class comprises any program that prepares individuals to become journalists who critically examine current culture as expressed through the visual and performing arts, design, film, music, radio, television, dance, theater, and written text. These programs include courses in arts criticism, art and entertainment reporting, cultural critique, investigative reporting, newspaper reporting, photojournalism, and writing.

Illustrative example(s)

- arts and entertainment journalism
- cultural journalism
- cultural reporting

09.0407 Science/health/environmental journalism

This instructional program class comprises any program that focuses on reporting on science, health, or environmental policy issues; investigating environmental problems and their causes; and public relations. These programs include courses in communication law, health reporting skills, interactive journalism, integrated marketing communication, journalism methods, media ethics, persuasion and political communication, science, health and the environment, social marketing, and video journalism.

Illustrative example(s)

- environmental and science journalism
- environmental journalism
- health journalism
- science, health and environmental journalism
- science, health and environmental reporting
- scientific journalism

09.0499 Journalism, other

This instructional program class comprises any program not listed above that relates to Journalism.

Illustrative example(s)

- fashion journalism
- other journalism
- political journalism
- political reporting

Exclusion(s)

- online journalism (See 09.0401-Journalism, general)

09.07 Radio, television and digital communication

This subseries comprises instructional program classes 09.0701 to 09.0799.

09.0701 Radio and television

This instructional program class comprises any program that focuses on the theories, methods, and techniques used to plan, produce, and distribute audio and video programs and messages, and that prepares individuals to function as staff, producers, directors, and managers of radio and television shows and media organizations. These programs include courses in media aesthetics; planning, scheduling, and production; writing and editing; performing and directing; personnel and facilities management; marketing and distribution; media regulations, law, and policy; and principles of broadcast technology.

Illustrative example(s)

- radio and television
- radio, television, and film

Exclusion(s)

- film and video production (See 50.0602-Cinematography and film/video production)
- film studies (See 50.0601-Film/cinema/video studies)
- recording arts technology (See 10.0203-Recording arts technology/technician)
- television production technology (See 10.0202-Radio and television broadcasting technology/technician)

09.0702 Digital communication and media/multimedia

This instructional program class comprises any program that focuses on the development, use, critical evaluation, and regulation of new electronic communication technologies using computer applications; and that prepares individuals to function as developers and managers of digital communications media. These programs include courses in computers and telecommunications technologies and processes; design and development of digital communications; marketing and distribution; digital communications regulation, law, and policy; the study of human interaction with, and use of, digital media; and emerging trends and issues.

Illustrative example(s)

- digital communication and media
- digital communication and multimedia
- digital communications
- digital media
- multimedia communications

Exclusion(s)

- communication studies (See 09.0100-Communication, general)
- communications technology (See 10.0105-Communications technology/technician)
- digital arts (See 50.0102-Digital arts, general)

- educational media (See 13.0501-Educational/instructional technology)
- multimedia and web (See 11.0801-Web page, digital/multimedia and information resources design)
- multimedia art (See 50.0706-Intermedia/multimedia)
- telecommunications technology (See 15.0305-Telecommunications technology/technician)

09.0799 Radio, television and digital communication, other

This instructional program class comprises any program not listed above that relates to Radio, television and digital communication.

Illustrative example(s)

- other radio, television and digital communication

09.09 Public relations, advertising and applied communication

This subseries comprises instructional program classes 09.0901 to 09.0999.

09.0900 Public relations, advertising and applied communication, general

This instructional program class comprises any general program that focuses on organizational communication, public relations, and advertising; and that prepares individuals to function in a wide range of public and private sector positions requiring the skills of persuasive communication. These programs include courses in communications, public relations, and advertising theory; principles and techniques of persuasion; message/image design; marketing strategy; professional writing; public speaking and multi-media presentation skills; digital communications; and applied research.

Illustrative example(s)

- advertising and public relations
- applied communication
- public communications

Exclusion(s)

- advertising (See 09.0903-Advertising)
- communication studies (See 09.0100-Communication, general)
- international and intercultural communication (See 09.0907-International and intercultural communication)
- organizational communication (See 09.0901-Organizational communication, general)
- public relations (See 09.0902-Public relations/image management)
- sports communication (See 09.0906-Sports communication)

09.0901 Organizational communication, general

This instructional program class comprises any program that focuses on general communication processes and dynamics within organizations. These programs include courses in the development and maintenance of interpersonal group relations within organizations; decision-making and conflict management; the use of symbols to create and maintain organizational images, missions, and values; power and politics within organizations; human interaction with computer technology; and how communications socialize and support employees and team members.

Illustrative example(s)

- organizational communication

Exclusion(s)

- advertising and public relations (See 09.0900-Public relations, advertising and applied communication, general)
- business communications (See 52.0501-Business/corporate communications, general)
- communication studies (See 09.0100-Communication, general)

- non-profit management (See 52.0206-Non-profit/public/organizational management)
- organizational behaviour (See 52.1003-Organizational behaviour studies)
- organizational psychology (See 42.2804-Industrial and organizational psychology)

09.0902 Public relations/image management

This instructional program class comprises any program that focuses on the theories and methods for managing the media image of a business, organization, or individual and the communication process with stakeholders, constituencies, audiences, and the general public; and that prepares individuals to function as public relations assistants, technicians, and managers. These programs include courses in public relations theory; related principles of advertising, marketing, and journalism; message/image design; image management; special event management; media relations; community relations; public affairs; and internal communications.

Illustrative example(s)

- image management
- public relations
- public relations and communication management
- public relations management
- social media management

Exclusion(s)

- advertising (See 09.0903-Advertising)
- advertising and public relations (See 09.0900-Public relations, advertising and applied communication, general)
- international and intercultural communication (See 09.0907-International and intercultural communication)
- marketing (See 52.1401-Marketing/marketing management, general)
- political communication (See 09.0904-Political communication)
- political science (See 45.1001-Political science and government, general)
- public administration (See 44.0401-Public administration, general)
- sports communication (See 09.0906-Sports communication)

09.0903 Advertising

This instructional program class comprises any program that focuses on the creation, execution, transmission, and evaluation of commercial messages in various media intended to promote and sell products, services, and brands; and that prepares individuals to function as advertising assistants, technicians, and managers. These programs include courses in advertising theory, marketing strategy, advertising design and production methods, campaign methods and techniques, media management, related principles of business management, and applicable technical and equipment skills.

Illustrative example(s)

- advertising
- advertising copywriting
- brand management
- creative advertising
- marketing communications

Exclusion(s)

- advertising and public relations (See 09.0900-Public relations, advertising and applied communication, general)
- advertising art (See 50.0402-Commercial and advertising art)
- communication studies (See 09.0100-Communication, general)
- English writing (See 23.1301-English writing, general)
- French writing (See 55.1301-French writing, general)
- marketing (See 52.1401-Marketing/marketing management, general)

- marketing research (See 52.1402-Marketing research)
- publishing (See 09.1001-Publishing)

09.0904 Political communication

This instructional program class comprises any program that focuses on human and media communication in the political process and that prepares individuals to function as members of political and public affairs organizations, political campaign staffs, and related government and media entities. These programs include courses in media effects, political speaking and debating, political advertising and marketing, image management, political journalism, opinion polling, and aspects of print and broadcast media related to the production and distribution of media messages in political settings.

Illustrative example(s)

- political communication

Exclusion(s)

- advertising (See 09.0903-Advertising)
- American politics (See 45.1002-American government and politics (United States))
- Canadian government and politics (See 45.1003-Canadian government and politics)
- communication studies (See 09.0100-Communication, general)
- political science (See 45.1001-Political science and government, general)
- public administration (See 44.0401-Public administration, general)
- public relations (See 09.0902-Public relations/image management)

09.0905 Health communication

This instructional program class comprises any program that focuses on how people, individually and collectively, understand and accommodate to health and illness and the role of communication and media in shaping professional health care messages and public acceptance of these messages. These programs include courses in the development and use of health-related and care-related messages and media; the goals and strategies of health care promotion; relationships, roles, situations, and social structures in the context of health maintenance and promotion; and applications to disease prevention, health advocacy, and communications concerning treatments.

Illustrative example(s)

- health and health science communication
- health communication

Exclusion(s)

- communication studies (See 09.0100-Communication, general)
- community health and preventive medicine (See 51.2208-Community health and preventive medicine)
- community health representative (See 51.1504-Community health services/liason/counselling)
- family and consumer sciences communications (See 19.0202-Family and consumer sciences/human sciences communication)
- public health (MPH, DPH) (See 51.2201-Public health, general (BPH, MPH, DPH))
- public health education and promotion (See 51.2207-Public health education and promotion)
- technical communication (See 09.0908-Technical and scientific communication)

09.0906 Sports communication

This instructional program class comprises any program that focuses on the methods and techniques for communicating about sports in a variety of formats, media, and contexts; and that prepares individuals to be sports reporters and writers, photojournalists, radio and television announcers, producers and directors, recreational sports promoters, and public relations specialists. These programs include courses in sports writing, photography, broadcast journalism, sports production, game rules, media and public relations, and sports promotion.

Illustrative example(s)

- sports communication
- sports journalism
- sports reporting

Exclusion(s)

- applied communication (See 09.0900-Public relations, advertising and applied communication, general)
- broadcast journalism (See 09.0402-Broadcast journalism)
- communication studies (See 09.0100-Communication, general)
- English technical and professional writing (See 23.1303-English professional, technical, business, and scientific writing)
- French technical and business writing (See 55.1303-French professional, technical, business, and scientific writing)
- journalism (See 09.0401-Journalism, general)
- photojournalism (See 09.0404-Photojournalism)
- public relations (See 09.0902-Public relations/image management)
- sports studies (See 31.0508-Sports studies)
- technical communication (See 09.0908-Technical and scientific communication)

09.0907 International and intercultural communication

This instructional program class comprises any program that focuses on the specialized knowledge and skills needed for effective communication in the international community and among people of different cultures; and that prepares individuals to function at the national and international levels as journalists, public relations specialists, travel industry representatives, intercultural trainers, and/or foreign service officers. These programs include courses in journalism, communications, intercultural and international relations, marketing and public relations, and global communications policy.

Illustrative example(s)

- intercultural communication
- international and intercultural communication
- international communication

Exclusion(s)

- applied communication (See 09.0900-Public relations, advertising and applied communication, general)
- communication studies (See 09.0100-Communication, general)
- intercultural studies (See 30.2301-Intercultural/multicultural and diversity studies)
- journalism (See 09.0401-Journalism, general)
- public relations (See 09.0902-Public relations/image management)

09.0908 Technical and scientific communication

This instructional program class comprises any program that focuses on the communication of technical and scientific knowledge to a variety of audiences through print, video, and digital media; and that prepares individuals to function as technical writers and editors, documentation developers, web designers, and usability specialists. These programs include courses in scientific and technical writing and editing, graphic and information design, web design, audience analysis, document usability and field testing, publications management, and applications to specific technical fields.

Illustrative example(s)

- scientific communication
- technical and scientific communication
- technical communication

Exclusion(s)

- communication studies (See 09.0100-Communication, general)
- English technical and professional writing (See 23.1303-English professional, technical, business, and scientific writing)
- French technical and business writing (See 55.1303-French professional, technical, business, and scientific writing)
- health and health science communication (See 09.0905-Health communication)
- sports communication (See 09.0906-Sports communication)

09.0909 Communication management and strategic communications

This instructional program class comprises any program that focuses on the critical thinking, analysis, and practical skills essential to developing and implementing communication strategies that advance organizations goals and missions. These programs include courses in communication management, crisis communication, communications law, digital and traditional marketing strategies, media relations, social media strategies, strategic communication, traditional and emerging media, and writing for the media.

Illustrative example(s)

- communication management
- communication management and strategic communications
- strategic communications

Exclusion(s)

- telecommunications management (See 52.2101-Telecommunications management)

09.0999 Public relations, advertising and applied communication, other

This instructional program class comprises any program not listed above that relates to Public relations, advertising and applied communication.

Illustrative example(s)

- advertising and marketing communications management
- other public relations, advertising and applied communication

Exclusion(s)

- communication studies (See 09.0100-Communication, general)

09.10 Publishing

This subseries comprises instructional program class 09.1001.

09.1001 Publishing

This instructional program class comprises any program that focuses on the process of managing the creation, publication, and distribution of print and electronic books and other text products and prepares individuals to manage the editorial, technical, and business aspects of publishing operations. These programs include courses in product planning and design, editing, author relations, business and copyright law, publishing industry operations, contracting and purchasing, product marketing, electronic publishing and commerce, history of publishing, and professional standards and ethics.

Illustrative example(s)

- book and magazine publishing
- publishing
- publishing techniques and technologies

Exclusion(s)

- advertising copywriting (See 09.0903-Advertising)
- desktop publishing (See 10.0303-Prepress/desktop publishing and digital imaging design)
- graphic communications management (See 10.0302-Printing management)

09.99 Communication, journalism and related programs, other

This subseries comprises instructional program class 09.9999.

09.9999 Communication, journalism and related programs, other

This instructional program class comprises any program not listed above that relates to Communication, journalism and related programs.

Illustrative example(s)

- communication and scientific journalism
- journalism and communication
- mass communication and journalism
- other communication, journalism and related programs

10. Communications technologies/technicians and support services

This series comprises instructional programs that prepare individuals to function as equipment operators, support technicians, and operations managers in the film/video, recording, and graphic communications industries.

10.01 Communications technology/technician

This subseries comprises instructional program class 10.0105.

10.0105 Communications technology/technician

This instructional program class comprises any program that generally prepares individuals to function as workers and managers within communications industries. These programs include courses in business economics; basic management; principles of interpersonal and mediated communications; radio, television, and digital media production; and related aspects of technology and communications systems.

Illustrative example(s)

- communications technician
- communications technology
- technical communications assistant

Exclusion(s)

- communication studies (See 09.0100-Communication, general)
- communications technician (apprenticeship) (See 47.0103-Communications systems installation and repair technology/technician)
- digital communication and multimedia (See 09.0702-Digital communication and media/multimedia)
- telecommunications technology (See 15.0305-Telecommunications technology/technician)

10.02 Audiovisual communications technologies/technicians

This subseries comprises instructional program classes 10.0201 to 10.0299.

10.0201 Photographic and film/video technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to the operation and maintenance of camera and lighting equipment and the production of finished still, video, and film products under the supervision of photographers, directors, and editors. These programs include courses in equipment setup and maintenance; lighting; power supplies; studio and film set tasks such as camera operator, grip, and best boy; plate and negative handling and development; laboratory procedures; and digital software applications.

Illustrative example(s)

- best boy
- camera operator
- cameraman/camerawoman
- film technician
- gaffer
- grip
- motion picture and theatre grip
- photo lab technician
- photofinishing
- photography, film and video - technologist/technician and assistant

Exclusion(s)

- commercial photography (See 50.0406-Commercial photography)
- creative photography (See 50.0605-Photography)
- film and video production (See 50.0602-Cinematography and film/video production)
- photojournalism (See 09.0404-Photojournalism)

10.0202 Radio and television broadcasting technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to the production of radio and television programs, and related operations, under the supervision of broadcast and studio managers, directors, editors, and producers. These programs include courses in sound, lighting, and camera operation and maintenance; power and feed control; studio operations; production preparation; broadcast engineering; related computer applications; and specialized applications such as news, entertainment, live talk, sports, commercials, and taping.

Illustrative example(s)

- broadcast engineering technology
- broadcast technology
- radio broadcast technology
- radio broadcasting technician
- television and new media production
- television broadcast technology
- television broadcasting technician
- television production technology

Exclusion(s)

- broadcast journalism (See 09.0402-Broadcast journalism)
- communications engineering (See 14.1004-Telecommunications engineering)
- radio and television (See 09.0701-Radio and television)
- telecommunications technology (See 15.0305-Telecommunications technology/technician)

10.0203 Recording arts technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to the production of sound recordings as finished products or as components of film/video, broadcast, live, or mixed media productions. These programs include courses in sound equipment operation and maintenance; music, dialogue, and sound effects recording; sound track editing; dubbing and mixing; sound engineering; tape, disk, and CD production; digital recording and transmission; amplification and modulation; and working with producers, editors, directors, artists, and production managers.

Illustrative example(s)

- audio recording technology
- music recording
- recording arts technology
- sound recording
- sound technology

Exclusion(s)

- acoustic engineering (See 14.9999-Engineering, other)
- computer-assisted sonic design (See 50.0917-Sound arts)
- film and video production (See 50.0602-Cinematography and film/video production)
- music production (See 50.0999-Music, other)
- recording engineering (See 15.0307-Audio/sound engineering technology/technician)

10.0204 Voice writing technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to use voice writing computer software and speak a verbal shorthand language to create transcripts and screen captioning of live or recorded events intended for the public or a specific audience in a variety of media (e.g., digital, film, print, television) as well as for conferences, conversations, interviews, and meetings. These programs include courses in screen captioning, speed building, spoken shorthand, transcription, and voice input writing.

Illustrative example(s)

- broadcast captioning
- closed captioning
- screen captioning
- voice writing
- voice writing technician
- voice writing technology

Exclusion(s)

- court reporting and captioning (See 22.0303-Court reporting and captioning/court reporter)

10.0299 Audiovisual communications technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Audiovisual communications technologies/technicians.

Illustrative example(s)

- audiovisual technician
- audiovisual technology
- av technician
- other audiovisual communications technologies/technicians
- projectionist

Exclusion(s)

- 3D animation (See 10.0304-Animation, interactive technology, video graphics and special effects)
- broadcast captioning (See 10.0204-Voice writing technology/technician)
- educational media (See 13.0501-Educational/instructional technology)
- film and video production (See 50.0602-Cinematography and film/video production)

10.03 Graphic communications

This subseries comprises instructional program classes 10.0301 to 10.0399.

10.0301 Graphic communications, general

This instructional program class comprises any program that generally prepares individuals to apply technical knowledge and skills in the manufacture and distribution or transmission of graphic communications products. These programs include courses in the prepress, press, and postpress phases of production operations and processes such as offset lithography, flexography, gravure, letterpress, screen printing, foil stamping, digital imaging, and other reproduction methods.

Illustrative example(s)

- graphic communications
- graphic production
- graphic production and printing

Exclusion(s)

- commercial art (See 50.0402-Commercial and advertising art)
- computer graphics (See 11.0803-Computer graphics)
- graphic design (See 50.0409-Graphic design)
- marketing communications (See 09.0903-Advertising)
- visual communications (See 50.0401-Design and visual communications, general)

10.0302 Printing management

This instructional program class comprises any program that prepares individuals to apply technical and managerial knowledge and skills to the processes and procedures of managing printing operations from initial

design through finished product distribution. These programs include courses in the principles of graphic communications design and production; quality control; printing operations management; computerization; printing plant management; business finance and marketing; logistics and distribution; personnel supervision and leadership; and professional standards in the graphic communications industry.

Illustrative example(s)

- graphic communications management
- printing management
- printing management technology

Exclusion(s)

- graphic and printing equipment operator (See 10.0305-Graphic and printing equipment operator, general production)
- printing press operator (See 10.0307-Printing press operator)
- printmaking (See 50.0710-Printmaking)

10.0303 Prepress/desktop publishing and digital imaging design

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to the layout, design and typographic arrangement of printed and/or electronic graphic and textual products. These programs include courses in printing and lithographic equipment and operations; computer hardware and software; digital imaging; print preparation; page layout and design; desktop publishing; and applicable principles of graphic design and web page design.

Illustrative example(s)

- computer graphics for desktop publishing
- computer graphics for prepress
- desktop publishing
- digital imaging design
- electronic prepress
- electronic publishing
- prepress

Exclusion(s)

- computer graphics (See 11.0803-Computer graphics)
- digital arts (See 50.0102-Digital arts, general)
- digital communication and multimedia (See 09.0702-Digital communication and media/multimedia)
- graphic design for print and web (See 50.0409-Graphic design)
- publishing (See 09.1001-Publishing)
- typesetting (See 10.0308-Computer typography and composition equipment operator)
- web page design (See 11.0801-Web page, digital/multimedia and information resources design)

10.0304 Animation, interactive technology, video graphics and special effects

This instructional program class comprises any program that prepares individuals to use computer applications and related visual and sound imaging techniques to manipulate images and information originating as film, video, still photographs, digital copy, soundtracks, and physical objects in order to communicate messages simulating real-world content. These programs include courses in specialized camerawork and equipment operation and maintenance, image capture, computer programming, dubbing, CAD applications, and applications to specific commercial, industrial, and entertainment needs.

Illustrative example(s)

- 2D and 3D animation
- 2D and 3D animation technology
- 2D animation
- 3D animation

- classical animation
- computer animation
- digital animation
- special effects
- video graphics

Exclusion(s)

- 3D graphics technology (See 11.0803-Computer graphics)
- 3D modelling for game animation (See 50.0411-Game and interactive media design)
- computer game programming (See 11.0204-Computer game programming)
- film and video production (See 50.0602-Cinematography and film/video production)
- modeling, virtual environments and simulation (See 11.0804-Modelling, virtual environments and simulation)
- photofinishing (See 10.0201-Photographic and film/video technology/technician)

10.0305 Graphic and printing equipment operator, general production

This instructional program class comprises any program that generally prepares individuals to apply technical knowledge and skills to plan, prepare, and execute a variety of commercial and industrial graphic communications jobs. These programs include courses in the operation and maintenance of mechanical, electronic, and digital graphic, printing, and finishing equipment; and related processes.

Illustrative example(s)

- graphic and printing equipment operator
- printing
- printing and finishing
- printing production
- printing technology

Exclusion(s)

- computer graphics (See 11.0803-Computer graphics)
- graphic design (See 50.0409-Graphic design)
- graphic production and printing (See 10.0301-Graphic communications, general)
- printing press operator (See 10.0307-Printing press operator)

10.0306 Platemaker/imager

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to prepare film, digital data, and surfaces to reproduce printed or graphic images. These programs include courses in platemaking, stripping, camerawork, imposition, digital imaging, computer direct-to-plate and direct-to-press, and related processes.

Illustrative example(s)

- photo engraving
- platemaker
- platemaking

Exclusion(s)

- desktop publishing (See 10.0303-Prepress/desktop publishing and digital imaging design)
- printmaking (See 50.0710-Printmaking)

10.0307 Printing press operator

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to set up, operate, and maintain printing presses.

Illustrative example(s)

- flexographic press operator

- offset press operator
- offset printing
- printing press operator
- printing pressman/presswoman
- rotary offset press operator

Exclusion(s)

- desktop publishing (See 10.0303-Prepress/desktop publishing and digital imaging design)
- graphic and printing equipment operator (See 10.0305-Graphic and printing equipment operator, general production)

10.0308 Computer typography and composition equipment operator

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to design and execute page formats, layouts and text composition, and to make typographical selections using computer graphics and other computer-assisted design programs.

Illustrative example(s)

- computer typography and composition
- printing compositor
- typesetting
- typography

Exclusion(s)

- computer graphics (See 11.0803-Computer graphics)
- desktop publishing (See 10.0303-Prepress/desktop publishing and digital imaging design)

10.0399 Graphic communications, other

This instructional program class comprises any program not listed above that relates to Graphic communications.

Illustrative example(s)

- bookbinding
- machine bookbinding
- other graphic communications

Exclusion(s)

- publishing (See 09.1001-Publishing)

10.99 Communications technologies/technicians and support services, other

This subseries comprises instructional program class 10.9999.

10.9999 Communications technologies/technicians and support services, other

This instructional program class comprises any program not listed above that relates to Communications technologies/technicians and support services.

Illustrative example(s)

- other communications technologies/technicians and support services

11. Computer and information sciences and support services

This series comprises instructional programs that focus on the computer and information sciences and prepare individuals for various occupations in information technology and computer operations fields.

11.01 Computer and information sciences and support services, general

This subseries comprises instructional program class 11.0101 to 11.0199.

11.0101 Computer and information sciences, general

This instructional program class comprises any general program that focuses on computing, computer science, and information science and systems. Such programs are undifferentiated as to title and content and are not to be confused with specific programs in computer science, information science, or related support services.

Illustrative example(s)

- computer and information sciences
- computing and information science
- computing and information systems

Exclusion(s)

- accounting and computer science (See 30.1601-Accounting and computer science)
- computer engineering (See 14.0901-Computer engineering, general)
- computer engineering technology (See 15.1201-Computer engineering technology/technician, general)
- computer science (See 11.0701-Computer science)
- computer systems technology (See 15.1202-Computer/computer systems technology/technician)
- information resources management (See 52.1206-Information resources management)
- information science (See 11.0401-Information science/studies)
- information technology (See 11.0103-Information technology)
- library and information science (See 25.0101-Library and information science)
- logic (See 38.0102-Logic)
- management information systems (See 52.1201-Management information systems, general)
- mathematics and computer science (See 30.0801-Mathematics and computer science)
- social informatics (See 11.0104-Informatics)

11.0102 Artificial intelligence

This instructional program class comprises any program that focuses on the symbolic inference, representation, and simulation by computers and software of human learning and reasoning processes and capabilities, and the computer modelling of human motor control and motions. These programs include courses in computing theory, cybernetics, human factors, natural language processing, and applicable aspects of engineering, technology, and specific end-use applications.

Illustrative example(s)

- artificial intelligence
- machine learning
- robotics programming

Exclusion(s)

- computer hardware engineering (See 14.0902-Computer hardware engineering)
- computer hardware technology (See 15.1203-Computer hardware technology/technician)
- human computer interaction (See 30.3101-Human computer interaction)
- mechatronics, robotics, and automation engineering (See 14.4201-Mechatronics, robotics, and automation engineering)
- mechatronics, robotics, and automation engineering technology (See 15.0407-Mechatronics, robotics, and automation engineering technology/technician)
- modeling, virtual environments and simulation (See 11.0804-Modelling, virtual environments and simulation)
- robotics and automation technology (See 15.0407-Mechatronics, robotics, and automation engineering technology/technician)
- robotics technician (See 15.0405-Robotics technology/technician)

11.0103 Information technology

This instructional program class comprises any program that focuses on the design of technological information systems, including computing systems, as solutions to business and research data and communications support needs. These programs include courses in the principles of computer hardware and software components, algorithms, databases, telecommunications, user tactics, application testing, and human interface design.

Illustrative example(s)

- business information technology
- computer information systems
- information technology
- IT

Exclusion(s)

- business information processing (See 52.0407-Business/office automation/technology/data entry)
- computer and information sciences (See 11.0101-Computer and information sciences, general)
- computer hardware technology (See 15.1203-Computer hardware technology/technician)
- computer science (See 11.0701-Computer science)
- computer systems technology (See 15.1202-Computer/computer systems technology/technician)
- information science (See 11.0401-Information science/studies)
- information technology project management (See 11.1005-Information technology project management)
- management information systems (See 52.1201-Management information systems, general)
- social informatics (See 11.0104-Informatics)

11.0104 Informatics

This instructional program class comprises any program that focuses on computer systems from a user-centred perspective and studies the structure, behaviour and interactions of natural and artificial systems that store, process and communicate information. These programs include courses in information sciences, human computer interaction, information system analysis and design, telecommunications structure and information architecture and management.

Illustrative example(s)

- informatics
- social informatics

Exclusion(s)

- computer and information sciences (See 11.0101-Computer and information sciences, general)
- computer science (See 11.0701-Computer science)
- information technology (See 11.0103-Information technology)

11.0105 Human-centred technology design

This instructional program class comprises any program that focuses on incorporating a human perspective into designing, researching, and creating technological interfaces. These programs include courses in design, human-computer interaction, learning, neuroscience, perception, product design, user-centred design, and usability.

Illustrative example(s)

- human centred technology design
- human-centred technology design
- technological interface design
- user experience design
- UX design
- UXD

Exclusion(s)

- human computer interaction (See 30.3101-Human computer interaction)
- human-centred design (See 50.0499-Design and applied arts, other)
- user-centred design (See 50.0499-Design and applied arts, other)

11.0199 Computer and information sciences and support services, general, other

This instructional program class comprises any program not listed above that relates to Computer and information sciences and support services, general.

Illustrative example(s)

- other computer and information sciences and support services, general

Exclusion(s)

- computer and information sciences (See 11.0101-Computer and information sciences, general)
- computer science (See 11.0701-Computer science)
- information technology (See 11.0103-Information technology)

11.02 Computer programming

This subseries comprises instructional program classes 11.0201 to 11.0299.

11.0201 Computer programming/programmer, general

This instructional program class comprises any program that focuses on the general writing and implementation of generic and customized programs to drive operating systems and that generally prepares individuals to apply the methods and procedures of software design and programming to software installation and maintenance. These programs include courses in software design, low- and high-level languages and program writing; program customization and linking; prototype testing; troubleshooting; and related aspects of operating systems and networks.

Illustrative example(s)

- computer applications development
- computer programmer
- computer programming
- computer programming technology
- programming
- software design
- software development

Exclusion(s)

- business computer programming (See 11.0202-Computer programming, specific applications)
- computer game programming (See 11.0204-Computer game programming)
- computer software technician (See 15.1204-Computer software technology/technician)
- computer systems technology (See 15.1202-Computer/computer systems technology/technician)
- database developer (See 11.0802-Data modelling/warehousing and database administration)
- mobile application development (See 11.0205-Computer programming, specific platforms)
- programmer-analyst (See 11.0501-Computer systems analysis/analyst)
- software systems development (See 14.0903-Computer software engineering)
- vendor-specific certification (See 11.0203-Computer programming, vendor/product certification)
- web page design (See 11.0801-Web page, digital/multimedia and information resources design)

11.0202 Computer programming, specific applications

This instructional program class comprises any program that prepares individuals to apply the knowledge and skills of general computer programming to the solution of specific operational problems and customization

requirements presented by individual software users and organizational users. Includes training in specific types of software and its installation and maintenance.

Illustrative example(s)

- business applications programming
- business computer programming
- computer programming, business applications
- e-commerce applications development
- programming specific applications

Exclusion(s)

- computer software technology (See 15.1204-Computer software technology/technician)
- database developer (See 11.0802-Data modelling/warehousing and database administration)
- software design (See 11.0201-Computer programming/programmer, general)
- software engineering (See 14.0903-Computer software engineering)
- vendor-specific certification (See 11.0203-Computer programming, vendor/product certification)
- web page design (See 11.0801-Web page, digital/multimedia and information resources design)

11.0203 Computer programming, vendor/product certification

This instructional program class comprises any program that prepares individuals to fulfill the requirements set by vendors for professional qualification as certified installation, customization, and maintenance engineers for specific software products and/or processes. Includes training in specific vendor supported software products and their installation and maintenance.

Illustrative example(s)

- CISCO certification
- Cisco Certified Internetwork Expert
- Cisco Certified Network Associate
- Cisco Certified Network Professional
- Microsoft certification
- Microsoft Certified Systems Administrator
- Microsoft Certified Systems Engineer
- Microsoft Certified Technology Specialist
- Sun certified Java programmer
- vendor-specific certification

Exclusion(s)

- business computer programming (See 11.0202-Computer programming, specific applications)
- computer software technology (See 15.1204-Computer software technology/technician)
- software design (See 11.0201-Computer programming/programmer, general)
- software engineering (See 14.0903-Computer software engineering)

11.0204 Computer game programming

This instructional program class comprises any program that prepares individuals to apply the knowledge and skills of design and computer programming to the development of computer games. These programs include courses in character and story development, computer programming, computer graphics, game design, game physics, human-computer interaction, human-centred design, and usability.

Illustrative example(s)

- computer game design and programming
- computer game development and programming
- computer game programming
- computer science - computer game development
- computer science - game programming

- game artificial intelligence programming
- game design and programming
- game development and programming
- game engine programming
- software game programming

Exclusion(s)

- computer game design and development (See 50.0411-Game and interactive media design)
- computer programming (See 11.0201-Computer programming/programmer, general)
- game level design (See 50.0411-Game and interactive media design)
- software development (See 11.0201-Computer programming/programmer, general)

11.0205 Computer programming, specific platforms

This instructional program class comprises any program that prepares individuals to design, develop, and implement software-based solutions for specific business and consumer platforms including industrial, game, mobile, tactile, and web platforms. These programs include courses in computer programming, computer hardware, data structures, database theory, maintenance, operating systems, project management, software development, and systems analysis.

Illustrative example(s)

- application development for mobile devices
- mobile and web application development
- mobile app development
- mobile app programming
- mobile application design and development
- mobile application development
- mobile application programming
- mobile web design
- web and mobile application development
- web design for mobile devices

Exclusion(s)

- computer programming (See 11.0201-Computer programming/programmer, general)
- web development (See 11.1004-Web/multimedia management and webmaster)
- web page design (See 11.0801-Web page, digital/multimedia and information resources design)

11.0299 Computer programming, other

This instructional program class comprises any program not listed above that relates to Computer programming.

Illustrative example(s)

- other computer programming

Exclusion(s)

- business computer programming (See 11.0202-Computer programming, specific applications)
- computer programming (See 11.0201-Computer programming/programmer, general)
- database developer (See 11.0802-Data modelling/warehousing and database administration)
- vendor-specific certification (See 11.0203-Computer programming, vendor/product certification)
- web page design (See 11.0801-Web page, digital/multimedia and information resources design)

11.03 Data processing and data processing technology/technician

This subseries comprises instructional program class 11.0301.

11.0301 Data processing and data processing technology/technician

This instructional program class comprises any program that prepares individuals to master and use computer software programs and applications for inputting, verifying, organizing, storing, retrieving, transforming (changing, updating, and deleting), and extracting information. These programs include courses in using various operating system configurations and in types of data entry such as word processing, spreadsheets, calculators, management programs, design programs, database programs, and research programs.

Illustrative example(s)

- data processing
- data processing technician
- data processing technology
- electronic data processing

Exclusion(s)

- data entry (See 11.0601-Data entry/microcomputer applications, general)
- office automation (See 52.0407-Business/office automation/technology/data entry)
- word processing (See 11.0602-Word processing)

11.04 Information science/studies

This subseries comprises instructional program class 11.0401.

11.0401 Information science/studies

This instructional program class comprises any program that focuses on the theory, organization, and process of information collection, transmission, and utilization in traditional and electronic forms. These programs include courses in information classification and organization; information storage and processing; transmission, transfer, and signalling; communications and networking; systems planning and design; human interfacing and use analysis; database development; information policy analysis; and related aspects of hardware, software, economics, social factors, and capacity.

Illustrative example(s)

- information science
- information studies

Exclusion(s)

- computer and information sciences (See 11.0101-Computer and information sciences, general)
- computer science (See 11.0701-Computer science)
- health information science (See 51.0706-Health information/medical records administration/administrator)
- information technology (See 11.0103-Information technology)
- library and information science (See 25.0101-Library and information science)
- management information systems (See 52.1201-Management information systems, general)
- systems science (See 30.0601-Systems science and theory)

11.05 Computer systems analysis/analyst

This subseries comprises instructional program class 11.0501.

11.0501 Computer systems analysis/analyst

This instructional program class comprises any program that prepares individuals to apply programming and systems analysis principles to the selection, implementation, and troubleshooting of customized computer and software installations across the life cycle. These programs include courses in computer hardware and software; compilation, composition, execution, and operating systems; low- and high-level languages and language programming; programming and debugging techniques; installation and maintenance testing and documentation; process and data flow analysis; user needs analysis and documentation; cost-benefit analysis; and specification design.

Illustrative example(s)

- computer analyst
- computer programmer-analyst
- computer systems analyst
- programmer-analyst

Exclusion(s)

- computer science (See 11.0701-Computer science)
- computer software technology (See 15.1204-Computer software technology/technician)
- computer systems technology (See 15.1202-Computer/computer systems technology/technician)
- information system management (See 52.1201-Management information systems, general)
- software design (See 11.0201-Computer programming/programmer, general)
- software systems development (See 14.0903-Computer software engineering)
- systems science (See 30.0601-Systems science and theory)

11.06 Data entry/microcomputer applications

This subseries comprises instructional program classes 11.0601 to 11.0699.

11.0601 Data entry/microcomputer applications, general

This instructional program class comprises any program that generally prepares individuals to perform basic data and text entry using standard and customized software products. These programs include courses in keyboarding skills, personal computer and work station operation, reading draft texts and raw data forms, audio and tape dictation, and various interactive software programs used for tasks such as word processing, spreadsheets, databases, and others.

Illustrative example(s)

- data entry
- data entry operator
- keypunch operator
- microcomputer applications
- microcomputer business applications

Exclusion(s)

- basic computer application (See 32.0110-Basic computer skills (not for credit))
- data processing (See 11.0301-Data processing and data processing technology/technician)
- medical insurance coding (See 51.0713-Medical insurance coding specialist/coder)
- office automation (See 52.0407-Business/office automation/technology/data entry)
- typesetting (See 10.0308-Computer typography and composition equipment operator)
- word processing (See 11.0602-Word processing)

11.0602 Word processing

This instructional program class comprises any program that prepares individuals to perform text typing, table construction, and document formatting tasks on personal computers at a high rate of accuracy and proficiency. These programs include courses in keyboarding skills, word processor operation, textual draft interpretation, audio and tape dictation, and specific word processing program software.

Illustrative example(s)

- word processing

Exclusion(s)

- basic computer application (See 32.0110-Basic computer skills (not for credit))
- data entry (See 11.0601-Data entry/microcomputer applications, general)
- data processing (See 11.0301-Data processing and data processing technology/technician)

- desktop publishing (See 10.0303-Prepress/desktop publishing and digital imaging design)
- office automation (See 52.0407-Business/office automation/technology/data entry)
- secretarial science (See 52.0401-Administrative assistant and secretarial science, general)
- stenographer-typist (See 52.0408-General office occupations and clerical services)

11.0699 Data entry/microcomputer applications, other

This instructional program class comprises any program not listed above that relates to Data entry/microcomputer applications.

Illustrative example(s)

- other data entry/microcomputer applications

Exclusion(s)

- data entry (See 11.0601-Data entry/microcomputer applications, general)
- data processing (See 11.0301-Data processing and data processing technology/technician)
- office automation (See 52.0407-Business/office automation/technology/data entry)
- word processing (See 11.0602-Word processing)

11.07 Computer science

This subseries comprises instructional program class 11.0701.

11.0701 Computer science

This instructional program class comprises any program that focuses on computer theory, computing problems and solutions, and the design of computer systems and user interfaces from a scientific perspective. These programs include courses in the principles of computational science, computer development and programming; and applications to a variety of end-use situations.

Illustrative example(s)

- computer science
- computer science technology
- computing science

Exclusion(s)

- accounting and computer science (See 30.1601-Accounting and computer science)
- bioinformatics (See 26.1103-Bioinformatics)
- computational biology (See 26.1104-Computational biology)
- computational mathematics (See 27.0303-Computational mathematics)
- computer and information sciences (See 11.0101-Computer and information sciences, general)
- computer engineering (See 14.0901-Computer engineering, general)
- computer hardware engineering (See 14.0902-Computer hardware engineering)
- computer hardware technology (See 15.1203-Computer hardware technology/technician)
- information science (See 11.0401-Information science/studies)
- mathematics and computer science (See 30.0801-Mathematics and computer science)
- medical informatics (See 51.2706-Medical informatics)
- programmer-analyst (See 11.0501-Computer systems analysis/analyst)
- social informatics (See 11.0104-Informatics)
- software systems development (See 14.0903-Computer software engineering)

11.08 Computer software and media applications

This subseries comprises instructional program classes 11.0801 to 11.0899.

11.0801 Web page, digital/multimedia and information resources design

This instructional program class comprises any program that prepares individuals to apply HTML, CSS, XML, JavaScript, graphics applications, and other authoring tools to the design, editing, and publishing (launching) of documents, images, graphics, sound, and multimedia products on the World Wide Web. These programs include courses in Internet theory; web page standards and policies; elements of web page design; user interfaces; vector tools; special effects; interactive and multimedia components; search engines; navigation; morphing; e-commerce tools; and emerging web technologies.

Illustrative example(s)

- interactive multimedia and design
- web design
- web design and development
- web page design
- web site design

Exclusion(s)

- computer programming (See 11.0201-Computer programming/programmer, general)
- desktop publishing (See 10.0303-Prepress/desktop publishing and digital imaging design)
- digital animation (See 10.0304-Animation, interactive technology, video graphics and special effects)
- digital communication and multimedia (See 09.0702-Digital communication and media/multimedia)
- e-commerce (See 52.0208-E-commerce/electronic commerce)
- game and interactive media design (See 50.0411-Game and interactive media design)
- graphic design for print and web (See 50.0409-Graphic design)
- modeling, virtual environments and simulation (See 11.0804-Modelling, virtual environments and simulation)
- multimedia art (See 50.0706-Intermedia/multimedia)
- website development (See 11.1004-Web/multimedia management and webmaster)

11.0802 Data modelling/warehousing and database administration

This instructional program class comprises any program that prepares individuals to design and manage the construction of databases and related software programs and applications, including the linking of individual data sets to create complex searchable databases (warehousing) and the use of analytical search tools (mining). These programs include courses in database theory, logic, and semantics; operational and warehouse modelling; dimensionality; attributes and hierarchies; data definition; technical architecture; access and security design; integration; formatting and extraction; data delivery; index design; implementation problems; planning and budgeting; and client and networking issues.

Illustrative example(s)

- data mining
- data warehousing
- database administration
- database developer
- database management

Exclusion(s)

- business computer programming (See 11.0202-Computer programming, specific applications)
- computer programming (See 11.0201-Computer programming/programmer, general)
- computer software technology (See 15.1204-Computer software technology/technician)
- management information systems (See 52.1201-Management information systems, general)
- modeling, virtual environments and simulation (See 11.0804-Modelling, virtual environments and simulation)
- parts and warehousing management (See 52.0409-Parts, warehousing and inventory management operations)
- parts and warehousing operations and maintenance (See 47.0409-Parts and warehousing operations and maintenance technology/technician)
- software engineering (See 14.0903-Computer software engineering)

11.0803 Computer graphics

This instructional program class comprises any program that focuses on the software, hardware, and mathematical tools used to represent, display, and manipulate topological two- and three-dimensional objects on a computer screen and that prepares individuals to function as computer graphics specialists. These programs include courses in graphics software and systems; digital multimedia; graphic design; graphics devices, processors, and standards; attributes and transformations; projections; surface identification and rendering; colour theory and application; and applicable geometry and algorithms.

Illustrative example(s)

- 2D graphics technology
- 3D graphics technology
- computer graphics

Exclusion(s)

- 3D animation (See 10.0304-Animation, interactive technology, video graphics and special effects)
- computer software technology (See 15.1204-Computer software technology/technician)
- computer-aided design and drafting technology (See 15.1302-CAD/CADD drafting and/or design technology/technician)
- desktop publishing (See 10.0303-Prepress/desktop publishing and digital imaging design)
- graphic design for print and web (See 50.0409-Graphic design)
- modeling, virtual environments and simulation (See 11.0804-Modelling, virtual environments and simulation)
- software design (See 11.0201-Computer programming/programmer, general)
- web page design (See 11.0801-Web page, digital/multimedia and information resources design)

11.0804 Modelling, virtual environments and simulation

This instructional program class comprises any program focusing on the principles of applied visual simulation technology and the application of quantitative analyses to human-computer interaction. These programs include courses in object-oriented programming, artificial intelligence, computer communications and networks, computer graphics, virtual worlds and simulation systems, probability, statistics, stochastic modelling, data analysis, human-performance evaluation, and human-behaviour modelling.

Illustrative example(s)

- computer simulation
- modeling, virtual environments and simulation
- virtual environments

Exclusion(s)

- 3D modelling for game animation (See 50.0411-Game and interactive media design)
- artificial intelligence (See 11.0102-Artificial intelligence)
- computer graphics (See 11.0803-Computer graphics)
- database developer (See 11.0802-Data modelling/warehousing and database administration)
- interactive multimedia and design (See 11.0801-Web page, digital/multimedia and information resources design)

11.0899 Computer software and media applications, other

This instructional program class comprises any program not listed above that relates to Computer software and media applications.

Illustrative example(s)

- other computer software and media applications

Exclusion(s)

- computer software technology (See 15.1204-Computer software technology/technician)

- digital communication and multimedia (See 09.0702-Digital communication and media/multimedia)
- educational media (See 13.0501-Educational/instructional technology)
- interactive multimedia and design (See 11.0801-Web page, digital/multimedia and information resources design)
- multimedia art (See 50.0706-Intermedia/multimedia)

11.09 Computer systems networking and telecommunications

This subseries comprises instructional program classes 11.0901 to 11.0999.

11.0901 Computer systems networking and telecommunications, general

This instructional program class comprises any program that focuses on the design, implementation, and management of linked systems of computers, peripherals, and associated software to maximize efficiency and productivity, and that prepares individuals to function as network specialists and managers at various levels. These programs include courses in operating systems and applications; systems design and analysis; networking theory and solutions; types of networks; network management and control; network and flow optimization; security; configuring; and troubleshooting.

Illustrative example(s)

- computer networks (university)
- computer systems networking (university)
- computer systems telecommunications (university)

Exclusion(s)

- computer hardware technology (See 15.1203-Computer hardware technology/technician)
- computer network engineering (See 14.0999-Computer engineering, other)
- computer networking technology (See 11.1001-Network and system administration/administrator)
- computer systems service technician (See 47.0104-Computer installation and repair technology/technician)
- computer systems technology (See 15.1202-Computer/computer systems technology/technician)
- network management (See 11.1002-System, networking and LAN/WAN management/manager)
- telecommunication engineering (See 14.1004-Telecommunications engineering)
- telecommunications technology (See 15.0305-Telecommunications technology/technician)

11.0902 Cloud computing

This instructional program class comprises any program that prepares individuals to design and implement enterprise software systems that rely on distributed computing and service-oriented architecture, including databases, web services, cloud computing, and mobile apps. These programs include courses in data management, distributed and cloud computing, enterprise software architecture, enterprise and cloud security, mobile systems and applications, server administration, and web development.

Illustrative example(s)

- cloud computing

11.0999 Computer systems networking and telecommunications, other

This instructional program class comprises any program not listed above that relates to Computer systems networking and telecommunications.

Illustrative example(s)

- other computer systems networking and telecommunications

11.10 Computer/information technology administration and management

This subseries comprises instructional program classes 11.1001 to 11.1099.

11.1001 Network and system administration/administrator

This instructional program class comprises any program that prepares individuals to manage the computer operations and control the system configurations emanating from a specific site or network hub. These programs include courses in computer hardware and software and applications; local area (LAN) and wide area (WAN) networking; principles of information systems security; disk space and traffic load monitoring; data backup; resource allocation; and setup and takedown procedures.

Illustrative example(s)

- computer and network support technician
- computer network administrator
- computer network specialist
- computer networking and technical support
- computer networking technology
- computer systems administration
- computer systems technician - networking
- network administration
- network specialist
- network support technician

Exclusion(s)

- computer hardware technology (See 15.1203-Computer hardware technology/technician)
- computer networks and security (See 11.1003-Computer and information systems security/auditing/information assurance)
- computer support specialist (See 11.1006-Computer support specialist)
- computer systems networking (university) (See 11.0901-Computer systems networking and telecommunications, general)
- computer systems service technician (See 47.0104-Computer installation and repair technology/technician)
- computer systems technology (See 15.1202-Computer/computer systems technology/technician)
- management information systems (See 52.1201-Management information systems, general)
- network management (See 11.1002-System, networking and LAN/WAN management/manager)
- telecommunication engineering (See 14.1004-Telecommunications engineering)

11.1002 System, networking and LAN/WAN management/manager

This instructional program class comprises any program that prepares individuals to oversee and regulate the computer system and performance requirements of an entire organization or network of satellite users. These programs include courses in performance balancing; redundancy; local area (LAN) and wide area (WAN) network management; system migration and upgrading; outage control; problem diagnosis and troubleshooting; and system maintenance budgeting and management.

Illustrative example(s)

- computer network management
- computer network manager
- LAN management
- LAN manager
- local area network management
- network management
- network manager
- WAN management
- WAN manager
- wide area network management

Exclusion(s)

- computer network engineering (See 14.0999-Computer engineering, other)
- computer systems analyst (See 11.0501-Computer systems analysis/analyst)

- computer systems networking (university) (See 11.0901-Computer systems networking and telecommunications, general)
- computer systems security (See 11.1003-Computer and information systems security/auditing/information assurance)
- management information systems (See 52.1201-Management information systems, general)
- network administration (See 11.1001-Network and system administration/administrator)
- telecommunication engineering (See 14.1004-Telecommunications engineering)
- telecommunications management (See 52.2101-Telecommunications management)

11.1003 Computer and information systems security/auditing/information assurance

This instructional program class comprises any program that prepares individuals to assess the security needs of computer and network systems, recommend safeguard solutions, and manage the implementation, auditing, and maintenance of security devices, systems, and procedures. These programs include courses in computer architecture, programming, and systems analysis; networking; telecommunications; cryptography; security system auditing and design; applicable laws and regulations; risk assessment and policy analysis; contingency planning; user access issues; investigation techniques; and troubleshooting.

Illustrative example(s)

- computer and network systems security
- computer network security
- computer networks and security
- computer systems security
- cyberspace security
- information assurance
- information systems security
- internet security
- IT security
- network security

Exclusion(s)

- computer forensics (See 43.0403-Cyber/computer forensics and counterterrorism)
- computer network administration (See 11.1001-Network and system administration/administrator)
- computer systems analyst (See 11.0501-Computer systems analysis/analyst)
- cybersecurity defense strategy (See 43.0404-Cybersecurity defense strategy/policy)
- healthcare information privacy assurance and security (See 51.0723-Healthcare information privacy assurance and security)
- network management (See 11.1002-System, networking and LAN/WAN management/manager)
- security services (See 43.0109-Security and loss prevention services)
- security system installation and maintenance (See 47.0110-Security system installation, repair and inspection technology/technician)
- terrorism and counterterrorism operations (See 43.0399-Security and protective services, specialized programs, other)

11.1004 Web/multimedia management and webmaster

This instructional program class comprises any program that prepares individuals to develop and maintain web servers and the hosted web pages at one or a group of web sites, and to function as designated webmasters. These programs include courses in computer systems and networks; server installation and maintenance; web page design and editing; information resources management; web policy and procedures; Internet applications of information systems security; user interfacing and usability research; and relevant management and communications skills.

Illustrative example(s)

- web administrator
- web developer

- web development
- web management
- web manager
- web site administration
- web site management
- webmaster
- website development

Exclusion(s)

- graphic design for print and web (See 50.0409-Graphic design)
- web page design (See 11.0801-Web page, digital/multimedia and information resources design)

11.1005 Information technology project management

This instructional program class comprises any program that prepares individuals to design, develop, and manage information technology projects in a variety of companies and organizations. These programs include courses in principles of project management, risk management, procurement and contract management, information security management, software management, organizational principles and behaviour, communications, quality assurance, financial analysis, leadership, and team effectiveness.

Illustrative example(s)

- information technology project management
- IT project management

Exclusion(s)

- information technology (See 11.0103-Information technology)
- project management (See 52.0211-Project management)

11.1006 Computer support specialist

This instructional program class comprises any program that prepares individuals to provide technical assistance, support, and advice to computer users to help troubleshoot software and hardware problems. These programs include courses in computer concepts, information systems, networking, operating systems, computer hardware, the Internet, software applications, help desk concepts and problem solving, and principles of customer service.

Illustrative example(s)

- computer call centre specialist
- computer help desk specialist
- computer support specialist
- computer technical support specialist
- information technology contact centre - customer care agent
- information technology contact centre - technical support agent
- information technology support specialist
- IT support specialist

Exclusion(s)

- call centre service representative (See 52.0411-Customer service support/call centre/teleservice operation)
- computer and network support technician (See 11.1001-Network and system administration/administrator)
- computer service technician (See 47.0104-Computer installation and repair technology/technician)

11.1099 Computer/information technology administration and management, other

This instructional program class comprises any program not listed above that relates to Computer/information technology administration and management.

Illustrative example(s)

- other computer/information technology administration and management

Exclusion(s)

- information resources management (See 52.1206-Information resources management)
- management information systems (See 52.1201-Management information systems, general)
- network management (See 11.1002-System, networking and LAN/WAN management/manager)
- systems administration (See 11.1001-Network and system administration/administrator)
- web site administration (See 11.1004-Web/multimedia management and webmaster)

11.99 Computer and information sciences and support services, other

This subseries comprises instructional program class 11.9999.

11.9999 Computer and information sciences and support services, other

This instructional program class comprises any program not listed above that relates to Computer and information sciences and support services.

Illustrative example(s)

- blockchain development
- other computer and information sciences and support services

12. Culinary, entertainment, and personal services

This series comprises instructional programs that prepare individuals to provide professional services related to cosmetology, funeral services, entertainment, and food preparation and service.

12.03 Funeral service and mortuary science

This subseries comprises instructional program classes 12.0301 to 12.0399.

12.0301 Funeral service and mortuary science, general

This instructional program class comprises any program that generally prepares individuals for careers in the funeral service industry and for licensure as funeral service directors or morticians. These programs include courses in the basic elements of mortuary science and the business, counselling, and operational aspects of funeral service.

Illustrative example(s)

- funeral directing and embalming
- funeral director and embalmer
- funeral director and mortician

Exclusion(s)

- funeral director (See 12.0302-Funeral direction/service)
- mortician (See 12.0303-Mortuary science and embalming/embalmer)
- thanatology (See 30.5301-Thanatology)

12.0302 Funeral direction/service

This instructional program class comprises any program that prepares individuals for professional licensure as funeral directors and as managers of funeral homes, cemeteries, and related services. These programs include courses in the sociology of death and dying, psychology of grief and grief counselling, history of funeral service, funeral direction, business law, funeral service law, funeral home management, accounting and related computer operations, and funeral services marketing and merchandising.

Illustrative example(s)

- cemetery manager
- funeral direction
- funeral director

- funeral home manager
- funeral service education
- funeral services director

Exclusion(s)

- embalmer (See 12.0303-Mortuary science and embalming/embalmer)
- funeral directing and embalming (See 12.0301-Funeral service and mortuary science, general)

12.0303 Mortuary science and embalming/embalmer

This instructional program class comprises any program that prepares individuals for licensure as embalmers and morticians. These programs include courses in pathogenic microbiology, systematic pathology, thanatochemistry, gross anatomy, clinical mortuary science, embalming, restorative art, applicable laws and regulations, and special services such as cremation and preparations required by specific religious communities.

Illustrative example(s)

- embalmer
- embalming
- mortician
- mortician and embalmer
- mortician and embalming
- mortuary science
- mortuary science and embalmer
- mortuary science and embalming

Exclusion(s)

- funeral directing and embalming (See 12.0301-Funeral service and mortuary science, general)
- funeral director (See 12.0302-Funeral direction/service)
- thanatology (See 30.5301-Thanatology)

12.0399 Funeral service and mortuary science, other

This instructional program class comprises any program not listed above that relates to Funeral service and mortuary science.

Illustrative example(s)

- other funeral service and mortuary science

Exclusion(s)

- funeral directing and embalming (See 12.0301-Funeral service and mortuary science, general)
- thanatology (See 30.5301-Thanatology)

12.04 Cosmetology and related personal grooming services

This subseries comprises instructional program classes 12.0401 to 12.0499.

12.0401 Cosmetology/cosmetologist, general

This instructional program class comprises any program that generally prepares individuals to cut, trim, style, or remove scalp, facial, and body hair; apply cosmetic preparations; perform manicures and pedicures; massage the head and extremities; and prepare for practice as licensed cosmetologists in specialized or full-service salons. These programs include courses in hair cutting and styling, manicuring, pedicuring, facial treatments, shampooing, chemical applications, esthetics, shop management, sanitation and safety, customer service, and applicable professional and labour laws and regulations.

Illustrative example(s)

- beautician

- cosmetician
- cosmetologist
- cosmetology

Exclusion(s)

- facial therapy (See 12.0408-Facial treatment specialist/facialist)
- massage therapy (See 51.3501-Massage therapy/therapeutic massage)
- master esthetician (See 12.0414-Master aesthetician/esthetician)
- skin and beauty care (See 12.0409-Aesthetician/esthetician and skin care specialist)

12.0402 Barbering/barber

This instructional program class comprises any program that prepares individuals to shave and trim facial/neck hair and beards, cut and dress hair, fit hairpieces, give facial and scalp massages, apply cosmetic treatments, and to prepare for licensure as professional barbers at various levels. These programs include courses in facial shaving; beard and moustache shaping and trimming; shampooing; hair cutting; hair styles and styling art; facial treatments and massage; chemical applications; hair and scalp anatomy and physiology; hairpiece and toupee fitting; equipment operation; health and safety; customer service; and shop business practices.

Illustrative example(s)

- barber
- barbering

Exclusion(s)

- hairdressing instructor (See 12.0413-Cosmetology, barber/styling and nail instructor)
- hairstylist (See 12.0407-Hair styling/stylist and hair design)

12.0404 Electrolysis/electrology and electrolysis technician

This instructional program class comprises any program that prepares individuals to permanently remove hair from the human scalp, face, and body using specialized charged solid needle probes, and to function as licensed electrologists and electrolysis technicians. These programs include courses in direct current electrolysis, alternating current/high frequency thermolysis, blend/dual modality treatments, equipment theory and operation, safety and sanitation, client evaluation and care, laws and regulations, and business practices.

Illustrative example(s)

- electrologist
- electrology
- electrolysis
- electrolysis technician

12.0406 Makeup artist/specialist

This instructional program class comprises any program that prepares individuals to professionally apply cosmetic makeup preparations and perform complete and specialized appearance makeovers including hairdressing, wig work, masking, temporary prosthesis applications, cosmetic applications, and related costuming for leisure or for professional stage, camera, clinical, or security purposes. These programs include courses in period and contemporary hairstyling and costuming; wig work and hairpiece application; synthetic hair and masks; cosmetic preparations and treatments; makeup artistry; attachment, removal, and camouflaging of prostheses; health and safety; client consultation and care; preproduction and postproduction operations; set and crew conduct and relations; script, instruction, and prescription interpretation; labour relations; and business practices.

Illustrative example(s)

- artistic makeup
- makeup
- makeup artist
- makeup artistry

Exclusion(s)

- cosmetology (See 12.0401-Cosmetology/cosmetologist, general)
- facial therapy (See 12.0408-Facial treatment specialist/facialist)
- permanent makeup (See 12.0411-Permanent cosmetics/makeup and tattooing)
- skin and beauty care (See 12.0409-Aesthetician/esthetician and skin care specialist)
- theatre technician (See 50.0502-Technical theatre/theatre design and technology)

12.0407 Hair styling/stylist and hair design

This instructional program class comprises any program that prepares individuals to shampoo, cut, style, set, and dress the scalp hair of women and/or men, braid hair, apply hair cosmetics and wigs, and prepare for licensure as professional cosmetologists, hairdressers, and barbers at various levels. These programs include courses in hair design theory and concepts, hair cleaning and shampooing, hair colouring, chemical applications and permanent reconstructions, hair anatomy and physiology, scalp diseases and treatments, wig and hairpiece fitting, hair braiding, customer service, shop management, equipment operation, health and safety, and applicable laws and regulations.

Illustrative example(s)

- hairdresser
- hairdressing
- hairstyling
- hairstylist
- men's hairdressing
- natural hair braider
- unisex hairdressing
- women's hairdressing

Exclusion(s)

- animal grooming (See 01.0504-Dog/pet/animal grooming)
- barber (See 12.0402-Barbering/barber)
- hairdressing instructor (See 12.0413-Cosmetology, barber/styling and nail instructor)

12.0408 Facial treatment specialist/facialist

This instructional program class comprises any program that prepares individuals to massage and treat the face, neck, and scalp with chemical and cosmetic preparations, and to function as licensed facial specialists in specialized and full service salons. These programs include courses in facial surface anatomy; skin properties; skin decontamination and infection control; facial massage; facial makeup; facial wrapping; selection and application of creams, lotions, oils, and other chemicals and cosmetics; European and other facial techniques; client evaluation and care, applicable laws and regulations, and business practices.

Illustrative example(s)

- facial skin care
- facial therapy
- facial treatment
- facialist

Exclusion(s)

- cosmetology (See 12.0401-Cosmetology/cosmetologist, general)
- esthetics (See 12.0409-Aesthetician/esthetician and skin care specialist)
- makeup (See 12.0406-Makeup artist/specialist)

12.0409 Aesthetician/esthetician and skin care specialist

This instructional program class comprises any program that prepares individuals to cleanse, depilate, massage, and beautify the human body and to function as licensed estheticians and skin care specialists. These programs

include courses in skin anatomy, physiology, and health; principles of nutrition; decontamination and infection control; health and safety; facial and body massage; body wrapping and spa treatments; temporary hair removal including waxing and tweezing; colour and skin analysis; client consultation and care; applicable laws and regulations; business practices; and sometimes related alternative healing regimens.

Illustrative example(s)

- aesthetics
- basic aesthetician
- basic esthetician
- esthetician
- esthetics
- skin and beauty care
- skin care
- waxing (hair removal)

Exclusion(s)

- cosmetology (See 12.0401-Cosmetology/cosmetologist, general)
- facial skin care (See 12.0408-Facial treatment specialist/facialist)
- massage therapy (See 51.3501-Massage therapy/therapeutic massage)
- medical esthetician (See 12.0414-Master aesthetician/esthetician)

12.0410 Nail technician/specialist and manicurist

This instructional program class comprises any program that prepares individuals to shape fingernails and toenails, remove unwanted skin and blemishes, apply polish and cosmetics to nails, and function as licensed manicurists or nail technicians/specialists. These programs include courses in manicuring theory; skin anatomy; nail growth, irregularities, and diseases; sterilization and sanitation; equipment and table maintenance; cuticle, blemish, and rough skin removal; nail filing, shaping, and polishing; cream application and extremity massage; nail sculpture and design art; product storage and use; customer service; laws and regulations; and business practices.

Illustrative example(s)

- manicure
- manicurist
- nail technician
- nail technology
- pedicure

Exclusion(s)

- cosmetology (See 12.0401-Cosmetology/cosmetologist, general)
- skin and beauty care (See 12.0409-Aesthetician/esthetician and skin care specialist)

12.0411 Permanent cosmetics/makeup and tattooing

This instructional program class comprises any program that prepares individuals to prepare and apply permanent markings, colour, and cosmetic products to the face and body for aesthetic or clinical purposes; to remove unwanted markings; and to function as licensed permanent makeup artists and tattooists. These programs include courses in client consultation; sterilization and sanitation; skin anatomy, diseases, and disorders; skin preparation and anesthetics; colour theory; machine theory and operation; needle selection; applications such as eyebrows, eyeliners, lips, lipliners, beauty marks, and blemish/mark removal; after care; laws and regulations; and business practices.

Illustrative example(s)

- artistic tattooing
- permanent makeup
- tattooing

Exclusion(s)

- cosmetology (See 12.0401-Cosmetology/cosmetologist, general)
- makeup (See 12.0406-Makeup artist/specialist)

12.0412 Salon/beauty salon management/manager

This instructional program class comprises any program that prepares cosmetologists, hairstylists, and other personal grooming specialists to manage beauty parlours, shops, and full-service or specialized salons and to prepare for licensure as professional salon owners and operators. These programs include courses in cosmetic services marketing and retailing; advertising and promotion; salon management; the cosmetic and salon supply industries; hiring, supervision, and labour relations; applicable business and professional laws and regulations; professional standards and image; and customer service.

Illustrative example(s)

- beauty parlour management
- beauty salon manager
- hair salon management
- hair salon manager

Exclusion(s)

- business administration (See 52.0201-Business administration and management, general)
- customer service management (See 52.0207-Customer service management)
- small business management and ownership (See 52.0703-Small business administration/management)

12.0413 Cosmetology, barber/styling and nail instructor

This instructional program class comprises any program that prepares cosmetologists, barbers, stylists, nail technicians, and other grooming specialists to teach their specializations in licensed and accredited schools of cosmetology and barbering, and to prepare for licensure as instructors. These programs include courses in cosmetology arts and sciences teaching principles; student learning styles; professional curricula development; instructional planning; instructional methods and aids; student counselling and career assistance; test development; and classroom/clinic management.

Illustrative example(s)

- barber instructor
- cosmetology instructor
- hairdressing instructor
- manicure instructor

Exclusion(s)

- vocational technical education (See 13.1319-Technical teacher education)

12.0414 Master aesthetician/esthetician

This instructional program class comprises any program that prepares individuals to massage and treat the face, neck, and body with advanced chemical and cosmetic preparations and esthetic medical treatments, and to function as licensed master or medical estheticians in dermatologists' and plastic surgeons' offices as well as in salons and spas. These programs include courses in advanced anatomy and physiology, skin properties and disorders, sanitation and infection control, advanced facial treatments, spa body treatments, advanced extractions, corrective makeup, chemical peels, microdermabrasion, lymphatic drainage and advanced massage techniques, pre- and post-operative esthetic skin care, client/patient evaluation and care, applicable laws and regulations, and business practices.

Illustrative example(s)

- advanced aesthetician
- advanced esthetician

- master aesthetician
- master esthetician
- medical aesthetician
- medical esthetician

Exclusion(s)

- cosmetology (See 12.0401-Cosmetology/cosmetologist, general)
- esthetician (See 12.0409-Aesthetician/esthetician and skin care specialist)
- massage therapy (See 51.3501-Massage therapy/therapeutic massage)

12.0499 Cosmetology and related personal grooming services, other

This instructional program class comprises any program not listed above that relates to Cosmetology and related personal grooming services.

Illustrative example(s)

- other cosmetology and related personal grooming services

Exclusion(s)

- animal grooming (See 01.0504-Dog/pet/animal grooming)
- gerontological services (See 19.0702-Adult development and aging)
- home health aide (See 51.2602-Home health aide/home attendant)
- massage therapy (See 51.3501-Massage therapy/therapeutic massage)

12.05 Culinary arts and related services

This subseries comprises instructional program classes 12.0500 to 12.0599.

12.0500 Cooking and related culinary arts, general

This instructional program class comprises any program that focuses on the general study of the cooking and related culinary arts, and that prepares individuals for a variety of jobs within the food service industry. These programs include courses in food preparation; cooking techniques; equipment operation and maintenance; sanitation and safety; communication skills; applicable regulations; and principles of food service management.

Illustrative example(s)

- camp cook
- commercial cooking
- cook
- cooking
- institutional cook
- institutional cooking
- professional cooking
- short order cooking

Exclusion(s)

- assistant cook (See 12.0505-Food preparation/professional cooking/kitchen assistant)
- chef (See 12.0503-Culinary arts/chef training)
- cooking and other domestic skills (See 36.0112-Cooking and other domestic skills (not for credit))
- culinary science (See 12.0509-Culinary science)
- food processing technology (See 01.1002-Food technology and processing)

12.0501 Baking and pastry arts/baker/pastry chef

This instructional program class comprises any program that prepares individuals to serve as professional bakers and pastry specialists in restaurants or other commercial baking establishments. These programs include courses

in bread and pastry making, bread and pastry handling and storage, cake and pastry decorating, baking industry operations, product packaging and marketing operations, and counter display and service.

Illustrative example(s)

- baker
- bakery
- baking
- baking and pastry arts
- commercial baking
- pastry
- pastry chef

Exclusion(s)

- assistant cook (See 12.0505-Food preparation/professional cooking/kitchen assistant)
- chef (See 12.0503-Culinary arts/chef training)
- culinary science (See 12.0509-Culinary science)
- institutional cook (See 12.0500-Cooking and related culinary arts, general)

12.0502 Bartending/bartender

This instructional program class comprises any program that prepares individuals to professionally prepare mixed alcoholic and non-alcoholic beverages and related products and manage bars, lounges, and beverage service operations in the hospitality industry. These programs include courses in mixology, oenology, accounting and cash management, inventory and cellar management, bar and lounge management, applicable laws and regulations, customer service, and labour/employment regulations.

Illustrative example(s)

- bar management
- barman/woman
- bartender
- bartending
- mixology
- serving it right
- smart serve

Exclusion(s)

- food and beverage service (See 12.0507-Food service, waiter/waitress and dining room management/manager)
- Selling It Right training program (See 52.1880-Cannabis-related selling skills and sales operations^{CAN})
- sommelier (See 12.0510-Wine steward/sommelier)

12.0503 Culinary arts/chef training

This instructional program class comprises any program that prepares individuals to provide professional chef and related cooking services in restaurants and other commercial food establishments. These programs include courses in recipe and menu planning, preparing and cooking of foods, supervising and training kitchen assistants, the management of food supplies and kitchen resources, aesthetics of food presentation, and familiarity with or mastery of a wide variety of cuisines and culinary techniques.

Illustrative example(s)

- chef
- chef training
- culinary arts
- master chef
- sous chef

Exclusion(s)

- assistant cook (See 12.0505-Food preparation/professional cooking/kitchen assistant)
- culinary science (See 12.0509-Culinary science)
- short order cooking (See 12.0500-Cooking and related culinary arts, general)

12.0504 Restaurant, culinary and catering management/manager

This instructional program class comprises any program that prepares individuals to plan, supervise, and manage food and beverage preparation and service operations, restaurant facilities, and catering services. These programs include courses in food/beverage industry operations, cost control, purchasing and storage, business administration, logistics, personnel management, culinary arts, restaurant and menu planning, executive chef functions, event planning and management, health and safety, insurance, and applicable laws and regulations.

Illustrative example(s)

- catering management
- culinary administration
- culinary management
- restaurant culinary management

Exclusion(s)

- dietary and food service management (See 19.0505-Foodservice systems administration/management)
- restaurant management (See 52.0905-Restaurant/food services management)

12.0505 Food preparation/professional cooking/kitchen assistant

This instructional program class comprises any program that prepares individuals to serve under the supervision of chefs and other food service professionals as kitchen support staff and commercial food preparation workers. These programs include courses in kitchen organization and operations, sanitation and quality control, basic food preparation and cooking skills, kitchen and kitchen equipment maintenance, and quantity food measurement and monitoring.

Illustrative example(s)

- assistant cook
- commercial cooking aide
- food preparation
- kitchen help
- professional cooking assistant

Exclusion(s)

- chef (See 12.0503-Culinary arts/chef training)
- cook (See 12.0500-Cooking and related culinary arts, general)
- cooking and other domestic skills (See 36.0112-Cooking and other domestic skills (not for credit))
- food processing technology (See 01.1002-Food technology and processing)
- food service worker (See 12.0508-Institutional food workers)

12.0506 Meat cutting/meat cutter

This instructional program class comprises any program that prepares individuals to receive, cut, and package animal meat products in commercial establishments and to function as licensed meat cutters/butchers. These programs include courses in product recognition for beef, veal, lamb, pork, poultry, and fancy and smoked meats; retail and wholesale cutting and specialty cuts; packaging and counter display; shop safety; meat sanitation, storage and rotation; quality control; meat handling laws and regulations; and customer service.

Illustrative example(s)

- butcher
- butcher shop delicatessen

- butchering
- butchery
- institutional meat cutting
- meat cutter
- meat cutting
- retail butchery
- retail meat cutting

Exclusion(s)

- food processing technology (See 01.1002-Food technology and processing)

12.0507 Food service, waiter/waitress and dining room management/manager

This instructional program class comprises any program that prepares individuals to serve food to customers in formal or informal settings. These programs include courses in the nutritional, sensory, and functional properties of food and its ingredients; food services principles; table and counter services; dining room operations and procedures; service personnel supervision and management; communication skills; business math; safety and sanitation.

Illustrative example(s)

- dining room management
- dining room service
- food and beverage service
- waiter/waitress

Exclusion(s)

- bartending (See 12.0502-Bartending/bartender)
- food service worker (See 12.0508-Institutional food workers)
- restaurant culinary management (See 12.0504-Restaurant, culinary and catering management/manager)
- sommelier (See 12.0510-Wine steward/sommelier)

12.0508 Institutional food workers

This instructional program class comprises any program that prepares individuals in food production and service for governmental, commercial or independently owned institutional food establishments, and related food industry occupations. These programs include courses in selecting, storing, preparing, and serving food and food products; basic nutrition; sanitation, and food safety; the use and care of commercial equipment; serving techniques; and the operation of institutional food establishments.

Illustrative example(s)

- food service worker
- institutional food service
- institutional food worker

Exclusion(s)

- chef (See 12.0503-Culinary arts/chef training)
- cook (See 12.0500-Cooking and related culinary arts, general)
- food preparation (See 12.0505-Food preparation/professional cooking/kitchen assistant)
- food processing technology (See 01.1002-Food technology and processing)

12.0509 Culinary science

This instructional program class comprises any program that focuses on the blending of food science and the culinary arts and that prepares individuals to work as research chefs and related research and development positions in the food industry. These programs include courses in culinary arts, food chemistry, food safety and quality, food processing, nutrition, and business management.

Illustrative example(s)

- culinary science
- culinology

Exclusion(s)

- baker (See 12.0501-Baking and pastry arts/baker/pastry chef)
- chef (See 12.0503-Culinary arts/chef training)
- food science (See 01.1001-Food science)
- professional cooking (See 12.0500-Cooking and related culinary arts, general)

12.0510 Wine steward/sommelier

This instructional program class comprises any program that prepares individuals to manage wine selection, purchasing, storage, sales, and service for a variety of establishments in the hospitality industry. These programs include courses in wine production, wine regions of the world, wine tasting, food and wine matching, service techniques, and wine program management.

Illustrative example(s)

- sommelier
- wine steward
- wine stewardship

Exclusion(s)

- bartending (See 12.0502-Bartending/bartender)
- food and beverage service (See 12.0507-Food service, waiter/waitress and dining room management/manager)
- wine technology (See 01.1004-Viticulture and enology)

12.0580 Cannabis edibles^{CAN}

This instructional program class comprises any program that focuses on the general study of preparing cannabis edibles: cannabis-infused food and drink. These programs include courses in preparing food and beverages with cannabis; baking with cannabis; creating candies and confections with cannabis; sanitation; health and safety procedures; and applicable laws and government regulatory and licensing requirements.

Illustrative example(s)

- baking with cannabis
- cannabis culinary arts
- cannabis edibles
- cannabis edibles baker
- cannabis edibles chef
- cannabis edibles cook
- cannabis edibles pastry chef
- cannabis edibles pastry cook
- cooking with cannabis
- cooking with cannabis oil

Exclusion(s)

- cannabis processing (See 01.0480-Cannabis product processing and inspection)

12.0599 Culinary arts and related services, other

This instructional program class comprises any program not listed above that relates to Culinary arts and related services.

Illustrative example(s)

- beer sommelier
- cicerone
- confectioner
- food safe
- foodsafe
- forest to fork
- other culinary arts and related services

Exclusion(s)

- bar management (See 12.0502-Bartending/bartender)
- food and beverage service (See 12.0507-Food service, waiter/waitress and dining room management/manager)
- food safety (See 01.1001-Food science)
- sommelier (See 12.0510-Wine steward/sommelier)

12.06 Casino operations and services

This subseries comprises instructional program classes 12.0601 to 12.0699.

12.0601 Casino operations and services, general

This instructional program class comprises any program that focuses on casino operations and services. These programs include courses in casino operations, casino security and surveillance, casino dealing, principles of the gaming industry, ethics, and gaming law.

Illustrative example(s)

- casino operations
- casino operations and gaming services
- casino operations and services
- casino services
- casino training

Exclusion(s)

- casino dealing (See 12.0602-Casino dealing)
- casino management (See 52.0908-Casino management)

12.0602 Casino dealing

This instructional program class comprises any program that prepares individuals to apply technical skills and knowledge to become table games dealers in casinos or other recreational settings. These programs include courses in dealing techniques for Baccarat, Blackjack, Carnival Games, Craps, Poker, and Roulette.

Illustrative example(s)

- baccarat dealer
- blackjack dealer
- casino dealing
- craps dealer
- croupier
- gaming attendant
- gaming table dealer
- gaming table operator
- poker dealer
- roulette croupier

Exclusion(s)

- casino management (See 52.0908-Casino management)
- casino operations and services (See 12.0601-Casino operations and services, general)

12.0699 Casino operations and services, other

This instructional program class comprises any program not listed above that relates to Casino operations and services.

Illustrative example(s)

- casino gaming instructor
- other casino operations and services

12.99 Culinary, entertainment, and personal services, other

This subseries comprises instructional program class 12.9999.

12.9999 Culinary, entertainment, and personal services, other

This instructional program class comprises any program not listed above that relates to Culinary, entertainment, and personal services.

Illustrative example(s)

- other culinary, entertainment, and personal services

Exclusion(s)

- animal grooming (See 01.0504-Dog/pet/animal grooming)
- dry cleaning (See 19.0999-Apparel and textiles, other)
- home health aide (See 51.2602-Home health aide/home attendant)

13. Education

This series comprises instructional programs that focus on the theory and practice of learning and teaching, and related research, administrative and support services.

13.01 Education, general

This subseries comprises instructional program class 13.0101.

13.0101 Education, general

This instructional program class comprises any program that focuses on the general theory and practice of learning and teaching; the basic principles of educational psychology; the art of teaching; the planning and administration of educational activities; school safety and health issues; and the social foundations of education.

Illustrative example(s)

- education
- educational studies
- educational theory
- pedagogy
- school teacher
- teacher development
- teacher education
- teacher training

Exclusion(s)

- educational foundations (See 13.0901-Social and philosophical foundations of education)
- learning sciences research (See 13.0607-Learning sciences)

- normal school (See 13.1202-Elementary education and teaching)
- psychopedagogy (See 42.2806-Educational psychology)
- religious education (except Bachelor of Education) (See 39.0401-Religious education)

13.02 Bilingual, multilingual and multicultural education

This subseries comprises instructional program classes 13.0201 to 13.0299.

13.0201 Bilingual and multilingual education

This instructional program class comprises any program that focuses on the design and provision of teaching and other educational services to bilingual/bicultural children or adults, and/or the design and implementation of educational programs having the goal of producing bilingual/bicultural individuals. Includes preparation to serve as teachers and administrators in bilingual/bicultural education programs.

Illustrative example(s)

- bilingual and multilingual education
- bilingual education

Exclusion(s)

- English teacher (See 13.1305-English/English language arts teacher education)
- French teacher (See 13.1325-French language/French language arts teacher education)
- teaching English as a second language (See 13.1401-Teaching English as a second or foreign language/ESL language instructor)
- teaching foreign languages (See 13.1306-Indigenous and foreign language teacher education)
- teaching French as a second language (See 13.1402-Teaching French as a second or foreign language)

13.0202 Multicultural education

This instructional program class comprises any program that focuses on the design, and implementation of instructional and advising services for culturally diverse learning populations. These programs include courses in cultural diversity, at risk populations, multilingual and ESL education, program and curriculum design, instructional technology, information resources, Language Instruction for Newcomers to Canada (LINC), and minority education strategies, counselling and communicating with multicultural populations, laws and regulations, and applications to specific cultural groups, educational services, and research issues.

Illustrative example(s)

- intercultural education
- multicultural education

Exclusion(s)

- bilingual and multilingual education (See 13.0201-Bilingual and multilingual education)
- First Nations teacher education (See 13.0203-Indigenous education)
- learning sciences research (See 13.0607-Learning sciences)
- teaching foreign languages (See 13.1306-Indigenous and foreign language teacher education)

13.0203 Indigenous education

This instructional program class comprises any program that focuses on the design and implementation of instructional and advising services for First Nations, Inuit and Métis students at various learning levels and that prepares individuals to perform teaching and administrative functions. These programs include courses in the cultural traditions and social patterns, history and politics, learning styles and issues, curriculum design and minority education strategies, counselling techniques and social issues, rural education services, distance education, adult education techniques, school administration, applicable laws and regulations, and research issues.

Illustrative example(s)

- Aboriginal education
- Aboriginal education for certified teachers
- education for First Nations and Inuit
- First Nations teacher education
- Indian and northern education
- Indian teacher education program (ITEP)
- Indigenous education
- Indigenous education for certified teachers
- Native teacher education
- training for teachers of Aboriginals

Exclusion(s)

- bilingual and multilingual education (See 13.0201-Bilingual and multilingual education)
- Indigenous classroom assistant (See 13.1501-Teaching assistants/aides, general)
- Indigenous languages and literature (See 16.1001-Indigenous languages, literatures, and linguistics of the Americas)
- Indigenous studies (See 05.0202-Indigenous peoples of the Americas studies)
- Native as a second language (See 16.1799-Second language learning, other)

13.0299 Bilingual, multilingual and multicultural education, other

This instructional program class comprises any program not listed above that relates to Bilingual, multilingual and multicultural education.

Illustrative example(s)

- other bilingual, multilingual and multicultural education

Exclusion(s)

- bilingual and multilingual education (See 13.0201-Bilingual and multilingual education)
- teaching foreign languages (See 13.1306-Indigenous and foreign language teacher education)

13.03 Curriculum and instruction

This subseries comprises instructional program class 13.0301.

13.0301 Curriculum and instruction

This instructional program class comprises any program that focuses on the curriculum and related instructional processes and tools, and that prepares individuals to serve as professional curriculum specialists. These programs include courses in curriculum theory, curriculum design and planning, instructional material design and evaluation, curriculum evaluation, and applications to specific subject matter, programs or educational levels.

Illustrative example(s)

- curriculum
- curriculum and instruction
- curriculum development
- curriculum education
- curriculum specialization
- curriculum studies

Exclusion(s)

- courseware development (See 13.0501-Educational/instructional technology)
- educational, instructional and curriculum supervision (See 13.0404-Educational, instructional and curriculum supervision)

13.04 Educational administration and supervision

This subseries comprises instructional program classes 13.0401 to 13.0499.

13.0401 Educational leadership and administration, general

This instructional program class comprises any program that focuses on the general principles and techniques of administering a wide variety of schools and other educational organizations and facilities, supervising educational personnel at the school or staff level, and that prepares individuals as general administrators and supervisors.

Illustrative example(s)

- education administration
- educational administration
- educational administration and foundations
- educational administration and policy
- educational leadership and policy
- educational leadership studies
- K-12 educational administration
- school administration
- school administration and policies
- school management

Exclusion(s)

- administration (See 52.0201-Business administration and management, general)
- institutional administration (See 52.0299-Business administration, management and operations, other)
- non-profit management (See 52.0206-Non-profit/public/organizational management)
- office management (See 52.0204-Office management and supervision)
- organizational leadership (See 52.0213-Organizational leadership)

13.0402 Administration of special education

This instructional program class comprises any program that prepares individuals to plan, supervise, and manage programs for exceptional students and their parents. These programs include courses in special education theory and practice, special education program development, evaluation and assessment in special education, applicable laws and regulations, managing individual education plans, problems of low- and high- disability students, mainstreaming, special education curricula, staff management, parent education, communications and community relations, budgeting, and professional standards and ethics.

Illustrative example(s)

- administration of special education

Exclusion(s)

- education administration (See 13.0401-Educational leadership and administration, general)
- teaching special education (See 13.1001-Special education and teaching, general)

13.0403 Adult and continuing education administration

This instructional program class comprises any program that focuses on the principles and techniques of administering programs and facilities designed to serve the basic education needs of undereducated adults, or the continuing education needs of adults seeking further or specialized instruction, and that prepares individuals to serve as administrators of such programs. These programs include courses in adult education principles, program and facilities planning, personnel management, community and client relations, budgeting and administration, professional standards, and applicable laws and policies.

Illustrative example(s)

- administration of adult education
- administration of continuing education

- adult and continuing education administration

Exclusion(s)

- community college administration (See 13.0407-Community college and general and vocational college (CEGEP) administration)
- higher education administration (See 13.0406-Higher education/higher education administration)

13.0404 Educational, instructional and curriculum supervision

This instructional program class comprises any program that prepares individuals to supervise instructional and support personnel at the school building, facility or staff level. These programs include courses in the principles of staffing and organization, the supervision of learning activities, personnel relations, administrative duties related to departmental or unit management, and specific applications to various educational settings and curricula.

Illustrative example(s)

- educational, instructional and curriculum supervision

Exclusion(s)

- curriculum development (See 13.0301-Curriculum and instruction)

13.0406 Higher education/higher education administration

This instructional program class comprises any program that focuses on the principles and practice of administration in universities and higher education systems, the study of higher education as an object of applied research, and which prepares individuals to function as administrators in such settings. These programs include courses in higher education economics and finance; policy and planning studies; curriculum; faculty and labour relations; higher education law; college student services; research on higher education; institutional research; marketing and promotion; and issues of evaluation, accountability and philosophy.

Illustrative example(s)

- higher education
- higher education administration
- higher education policy
- university administration

Exclusion(s)

- community college administration (See 13.0407-Community college and general and vocational college (CEGEP) administration)
- education policy studies (See 44.0502-Education policy analysis)

13.0407 Community college and general and vocational college (CEGEP) administration

This instructional program class comprises any program that focuses on the principles and techniques of administering community colleges and other college level institutions and related postsecondary systems, the study of community colleges as objects of applied research, and that prepares individuals to function as administrators in such settings. These programs include courses in community college finance; policy and planning studies; curriculum; faculty and labour relations; higher education law; student services; research on community colleges; institutional research; marketing and promotion; and issues of evaluation, accountability and philosophy.

Illustrative example(s)

- college administration
- community college administration
- vocational college administration

Exclusion(s)

- higher education administration (See 13.0406-Higher education/higher education administration)

13.0408 Elementary and middle school administration/principalship

This instructional program class comprises any program that focuses on educational administration at the elementary and middle school levels, and prepares individuals to serve as principals and headmasters of elementary and middle schools. These programs include courses in elementary and/or middle school education, program and facilities planning, budgeting and administration, public relations, human resources management, childhood and pre-adolescent growth and development, counselling skills, applicable laws and regulations, school safety, policy studies, and professional standards and ethics.

Illustrative example(s)

- elementary principal
- elementary school administration
- elementary school principal
- middle school administration
- middle school principal

Exclusion(s)

- education of individuals in elementary special education programs (See 13.1017-Education/teaching of individuals in elementary special education programs)
- high school principal (See 13.0409-Secondary school administration/principalship)

13.0409 Secondary school administration/principalship

This instructional program class comprises any program that focuses on educational administration at the junior high, secondary, or senior high school levels, and prepares individuals to serve as principals and headmasters of secondary schools. These programs include courses in secondary school education, program and facilities planning, budgeting and administration, public relations, human resources management, adolescent growth and development, counselling skills, applicable laws and regulations, school safety, policy studies, and professional standards and ethics.

Illustrative example(s)

- high school administration
- high school principal
- secondary school administration
- secondary school principal

Exclusion(s)

- education of individuals in secondary special education programs (See 13.1019-Education/teaching of individuals in secondary special education programs)
- elementary school principal (See 13.0408-Elementary and middle school administration/principalship)

13.0410 Urban education and leadership

This instructional program class comprises any program that focuses on issues and problems specific to the educational needs of populations and communities located in metropolitan and related areas and prepares individuals to provide educational services and administrative leadership in urban contexts. These programs include courses in multicultural education, at-risk studies, urban sociology, multilingual education, urban studies and planning, human services, health services and nutrition, cross-cultural communication, diversity studies, safety and security, and urban educational administration and leadership.

Illustrative example(s)

- urban education and leadership

Exclusion(s)

- bilingual and multilingual education (See 13.0201-Bilingual and multilingual education)
- multicultural education (See 13.0202-Multicultural education)
- urban studies (See 45.1201-Urban studies/affairs)

13.0411 Superintendency and educational system administration

This instructional program class comprises any program that focuses on leading and managing multi-school educational systems and school districts, and prepares individuals to serve as systems administrators and district superintendents. These programs include courses in educational administration; education of students at various levels; system planning and budgeting; educational policy; educational laws and regulations; public relations; professional standards and ethics; and applications to specific issues, cultural context, and geographic locales.

Illustrative example(s)

- educational system administration
- school superintendency
- school superintendent

Exclusion(s)

- institutional administration (See 52.0299-Business administration, management and operations, other)
- office management (See 52.0204-Office management and supervision)
- operations management (See 52.0205-Operations management and supervision)
- organizational and administrative studies in education (See 13.0401-Educational leadership and administration, general)

13.0412 International school administration/leadership

This instructional program class comprises any program that focuses on the principles and practice of administration in international schools, the study of international education as an object of applied research, and which may prepare individuals to function as administrators in such settings. These programs include courses in culture in the classroom, educational leadership, globalization, instructional design and technology, international research methods, evaluation, and education policy

Illustrative example(s)

- international school administration
- international school leadership

Exclusion(s)

- international and comparative education (See 13.0701-International and comparative education)
- International Baccalaureate teaching (See 13.1212-International Baccalaureate teaching and learning)

13.0413 Education entrepreneurship

This instructional program class comprises any program that prepares individuals to create, fund, and manage innovations in education. These programs include courses in philanthropy, business modelling, the design of learning environments, the economics of education, entrepreneurship, evaluation, finance, human-centered design, investing, resource management, project management, and marketing.

Illustrative example(s)

- education entrepreneurship

Exclusion(s)

- entrepreneurship teacher education (See 13.1303-Business and innovation/entrepreneurship teacher education)

13.0414 Early childhood program administration

This instructional program class comprises any program that focuses on early childhood educational program administration and prepares individuals to serve as a principal or director of an early childhood educational program. These programs include courses in early childhood education, program and facilities planning, budgeting and administration, public relations, human resources management, early childhood growth and development, counselling skills, applicable law and regulations, school safety, policy studies, and professional standards and ethics.

Illustrative example(s)

- early childhood education school principal
- early childhood educational program director
- early childhood educational program principal
- early childhood program administration
- early childhood program management

Exclusion(s)

- child care administration (See 19.0708-Child care and support services management)
- early childhood education (college) (See 19.0709-Child care provider/assistant)
- early childhood education teaching (Bachelor degree) (See 13.1210-Early childhood education and teaching)
- early childhood special education teaching (See 13.1015-Education/teaching of individuals in early childhood special education programs)

13.0499 Educational administration and supervision, other

This instructional program class comprises any program not listed above that relates to Educational administration and supervision.

Illustrative example(s)

- other educational administration and supervision

Exclusion(s)

- administration (See 52.0201-Business administration and management, general)
- education administration (See 13.0401-Educational leadership and administration, general)

13.05 Educational/instructional media design

This subseries comprises instructional program class 13.0501.

13.0501 Educational/instructional technology

This instructional program class comprises any program that focuses on integrating technology into educational curricula. These programs include courses in foundations of educational technology, computer applications, utilizing technology for assessment, multimedia instruction, web-based instruction, distance education, and designing and producing educational software and materials.

Illustrative example(s)

- courseware authoring
- courseware development
- educational media
- educational technology
- instructional media
- instructional technology

Exclusion(s)

- audiovisual technician (See 10.0299-Audiovisual communications technologies/technicians, other)
- computer graphics (See 11.0803-Computer graphics)

- digital communication and multimedia (See 09.0702-Digital communication and media/multimedia)
- interactive multimedia and design (See 11.0801-Web page, digital/multimedia and information resources design)
- school librarian (See 13.1334-School librarian/school library media specialist)

13.06 Educational assessment, evaluation and research

This subseries comprises instructional program classes 13.0601 to 13.0699.

13.0601 Educational evaluation and research

This instructional program class comprises any program that focuses on the principles and procedures for generating information about educational programs, personnel and methods, and the analysis of such information for planning purposes. These programs include courses in evaluation theory, evaluation research design and planning, administering evaluations and related data collection activities, data reporting requirements, data analysis and interpretation, and related economic and policy issues.

Illustrative example(s)

- educational evaluation and research
- educational research

Exclusion(s)

- educational statistics and research methods (See 13.0603-Educational statistics and research methods)
- learning sciences research (See 13.0607-Learning sciences)
- measurement, evaluation and research methodology in education (See 13.0604-Educational assessment, testing and measurement)

13.0603 Educational statistics and research methods

This instructional program class comprises any program that focuses on the application of statistics to the analysis and solution of educational research problems, and the development of technical designs for research studies. These programs include courses in mathematical statistics, research design, computer applications, instrument design, research methodologies, and applications to research problems in specific education subjects.

Illustrative example(s)

- educational statistics and research methods

Exclusion(s)

- applied statistics (See 27.0601-Applied statistics, general)
- educational research (See 13.0601-Educational evaluation and research)
- learning sciences research (See 13.0607-Learning sciences)
- mathematical statistics (See 27.0502-Mathematical statistics and probability)
- measurement, evaluation and research methodology in education (See 13.0604-Educational assessment, testing and measurement)
- research methodology and quantitative methods (See 45.0102-Research methodology and quantitative methods)

13.0604 Educational assessment, testing and measurement

This instructional program class comprises any program that focuses on the principles and procedures for designing, developing, implementing and evaluating tests and other mechanisms used to measure learning, evaluate student progress, and assess the performance of specific teaching tools, strategies and curricula. These programs include courses in psychometric measurement, instrument design, test implementation techniques, research evaluation, data reporting requirements, and data analysis and interpretation.

Illustrative example(s)

- educational assessment

- educational measurement
- educational testing
- measurement and evaluation in education
- measurement, evaluation and research methodology in education

Exclusion(s)

- administration and evaluation in education (See 13.9999-Education, other)
- applied psychology (See 42.2813-Applied psychology)
- educational evaluation and research (See 13.0601-Educational evaluation and research)
- educational statistics and research methods (See 13.0603-Educational statistics and research methods)
- learning sciences research (See 13.0607-Learning sciences)
- psychometrics (See 42.2708-Psychometrics and quantitative psychology)
- research methodology and quantitative methods (See 45.0102-Research methodology and quantitative methods)

13.0607 Learning sciences

This instructional program class comprises any program that focuses on the multiple aspects of learning in different environments, including specific aspects of the content to be mastered, cognitive aspects of the student, the instructional environment and materials, the preparation and activities of the instructor, socio-cultural and linguistic components, and assessment outcomes. These programs include courses in the social, organizational, and cultural dynamics of learning; learning and cognition; learning strategies; educational psychology; educational testing and measurement; instructional design and technology; and statistical design of educational research.

Illustrative example(s)

- contemplative inquiry approach in education
- learning sciences
- learning sciences and policy
- learning sciences research

Exclusion(s)

- contemplative inquiry (See 30.2502-Contemplative studies/inquiry)
- educational research (See 13.0601-Educational evaluation and research)
- educational statistics and research methods (See 13.0603-Educational statistics and research methods)
- measurement, evaluation and research methodology in education (See 13.0604-Educational assessment, testing and measurement)
- multicultural education (See 13.0202-Multicultural education)
- music pedagogy (See 50.0912-Music pedagogy)
- pedagogy (See 13.0101-Education, general)

13.0608 Institutional research

This instructional program class comprises any program that prepares individuals to become institutional researchers at postsecondary educational institutions. These programs include courses in data analysis, data-driven decision-making, data mining, higher education administration and organization, research methods, and statistics.

Illustrative example(s)

- institutional research

Exclusion(s)

- educational research (See 13.0601-Educational evaluation and research)

13.0699 Educational assessment, evaluation and research, other

This instructional program class comprises any program not listed above that relates to Educational assessment, evaluation and research.

Illustrative example(s)

- other educational assessment, evaluation and research

Exclusion(s)

- educational evaluation and research (See 13.0601-Educational evaluation and research)
- educational statistics and research methods (See 13.0603-Educational statistics and research methods)
- measurement, evaluation and research methodology in education (See 13.0604-Educational assessment, testing and measurement)

13.07 International and comparative education

This subseries comprises instructional program class 13.0701.

13.0701 International and comparative education

This instructional program class comprises any program that focuses on the educational phenomena, practices and institutions within different societies and states in comparative perspective, and the study of international educational issues. These programs include courses in comparative research methods, country- or area-specific studies, cross-national studies of learning and teaching styles, international educational policy and development, and analyses of educational migration patterns and experiences.

Illustrative example(s)

- international and comparative education
- international comparative education studies

Exclusion(s)

- bilingual and multilingual education (See 13.0201-Bilingual and multilingual education)
- International Baccalaureate teaching (See 13.1212-International Baccalaureate teaching and learning)
- international school administration (See 13.0412-International school administration/leadership)
- multicultural education (See 13.0202-Multicultural education)

13.09 Social and philosophical foundations of education

This subseries comprises instructional program class 13.0901.

13.0901 Social and philosophical foundations of education

This instructional program class comprises any program that focuses on the systematic study of education as a social and cultural institution, and the educational process as an object of humanistic inquiry. These programs include courses in such subjects as the philosophy of education, history of education, educational literature, educational anthropology, sociology of education, economics and politics of education, educational policy studies, and studies of education in relation to specific populations, issues, social phenomena, and types of work.

Illustrative example(s)

- culture and values in education
- educational contexts
- educational foundations
- history and philosophy of education
- history of education
- philosophy of education
- sociology in education

Exclusion(s)

- educational psychology (See 42.2806-Educational psychology)
- educational theory (See 13.0101-Education, general)
- philosophy (See 38.0101-Philosophy)
- psychological counselling (See 42.2803-Counselling psychology)

- sociology (See 45.1101-Sociology, general)

13.10 Special education and teaching

This subseries comprises instructional program classes 13.1001 to 13.1099.

13.1001 Special education and teaching, general

This instructional program class comprises any general program that focuses on the design and provision of teaching and other educational services to children or adults with special learning needs or disabilities, and that prepares individuals to function as special education teachers in a collaborative or team environment. These programs include courses in diagnosing learning disabilities, developing individual education plans, teaching and supervising special education students, special education counselling, and applicable laws and policies.

Illustrative example(s)

- inclusive education
- remedial instruction
- special education
- special education teaching
- special needs education
- teaching special education

Exclusion(s)

- administration of special education (See 13.0402-Administration of special education)
- education of individuals in elementary special education programs (See 13.1017-Education/teaching of individuals in elementary special education programs)
- education of individuals in junior high school special education programs (See 13.1018-Education/teaching of individuals in junior high/middle school special education programs)
- education of individuals in secondary special education programs (See 13.1019-Education/teaching of individuals in secondary special education programs)
- inclusive postsecondary education (See 30.0001-Inclusive postsecondary education)
- special education assistant (See 13.1501-Teaching assistants/aides, general)

13.1003 Education/teaching of individuals with hearing impairments including deafness

This instructional program class comprises any program that focuses on the design of educational services for children or adults with hearing impairments including deafness which adversely affect their educational performance, and that prepares individuals to teach such students. These programs include courses in identifying students with hearing impairments, including deafness, developing individual education plans, teaching and supervising hearing-impaired students, counselling, and applicable laws and policies.

Illustrative example(s)

- deaf education
- education of deaf individuals
- education of hearing-impaired individuals
- education of the deaf
- teacher of the deaf
- teaching hearing-impaired individuals
- teaching of deaf individuals

Exclusion(s)

- audiology (See 51.0202-Audiology/audiologist)
- deaf studies and sign language (See 05.0211-Deaf studies)
- sign language (See 16.1601-American Sign Language (ASL)/Langue des signes québécoise (LSQ))
- speech therapy and audiology (See 51.0204-Audiology/audiologist and speech-language pathology/pathologist)

13.1004 Education/teaching of the gifted and talented

This instructional program class comprises any program that focuses on the design of educational services for children or adults exhibiting exceptional intellectual, psychomotor or artistic talent or potential, or who exhibit exceptional maturity or social leadership talents, and that prepares individuals to teach such students. These programs include courses in identifying gifted and talented students, developing individual education plans, teaching and supervising gifted and talented students, counselling, and applicable laws and policies.

Illustrative example(s)

- education of exceptional children
- education of gifted and talented individuals
- gifted education
- teaching gifted and talented individuals

Exclusion(s)

- administration of special education (See 13.0402-Administration of special education)

13.1005 Education/teaching of individuals with emotional disturbances

This instructional program class comprises any program that focuses on the design of educational services for children or adults with emotional conditions which adversely affect their educational performance and that prepares individuals to teach such students. These programs include courses in identifying students with emotional disturbances, developing individual education plans, teaching and supervising individuals with emotional disturbances, counselling, and applicable laws and policies.

Illustrative example(s)

- education of individuals with emotional disturbances
- teaching of individuals with emotional disturbances

Exclusion(s)

- teaching special education (See 13.1001-Special education and teaching, general)

13.1006 Education/teaching of individuals with intellectual disabilities

This instructional program class comprises any program that focuses on the design of educational services for children or adults with intellectual disabilities which adversely affect their educational performance and that prepares individuals to teach such students. These programs include courses in identifying students with intellectual disabilities, developing individual education plans, teaching and supervising mentally handicapped students, counselling, and applicable laws and policies.

Illustrative example(s)

- education of individuals with intellectual disabilities
- education of intellectually-impaired individuals
- teaching of individuals with intellectual disabilities
- teaching of intellectually-impaired individuals

Exclusion(s)

- education of individuals who are developmentally delayed (See 13.1014-Education/teaching of individuals who are developmentally delayed)
- education of individuals with traumatic brain injuries (See 13.1016-Education/teaching of individuals with traumatic brain injuries)

13.1007 Education/teaching of individuals with multiple disabilities

This instructional program class comprises any program that focuses on the design of educational services for children or adults with multiple disabilities which adversely affect their educational performance and that prepares individuals to teach such students. These programs include courses in identifying students with multiple

disabilities, developing individual education plans, teaching and supervising multiple handicapped students, counselling, and applicable laws and policies.

Illustrative example(s)

- education of individuals with multiple disabilities
- teaching of individuals with multiple disabilities

Exclusion(s)

- assistive/augmentative technology and rehabilitation engineering (See 51.2312-Assistive/augmentative technology and rehabilitation engineering)
- occupational therapy (See 51.2306-Occupational therapy/therapist)
- vocational rehabilitation counselling (See 51.2310-Vocational rehabilitation counselling/counsellor)

13.1008 Education/teaching of individuals with orthopedic and other physical health impairments

This instructional program class comprises any program that focuses on the design of educational services for children or adults with orthopedic and other health impairments which adversely affect their educational performance and that prepares individuals to teach such students. These programs include courses in identifying physically disabled students, developing individual education plans, teaching and supervising students with orthopedic and other health impairments, counselling, and applicable laws and policies.

Illustrative example(s)

- education of individuals with orthopedic and other physical health impairments
- teaching of individuals with orthopedic and other physical health impairments

Exclusion(s)

- assistive/augmentative technology and rehabilitation engineering (See 51.2312-Assistive/augmentative technology and rehabilitation engineering)
- occupational therapy (See 51.2306-Occupational therapy/therapist)
- vocational rehabilitation counselling (See 51.2310-Vocational rehabilitation counselling/counsellor)

13.1009 Education/teaching of individuals with vision impairments including blindness

This instructional program class comprises any program that focuses on the design of educational services for children or adults with visual disabilities which adversely affect their educational performance and that prepares individuals to teach such students. These programs include courses in identifying students with visual impairments, developing individual education plans, teaching and supervising blind or visually handicapped students, counselling, and applicable laws and policies.

Illustrative example(s)

- education of blind individuals
- education of individuals with vision impairments
- teaching of blind individuals
- teaching of individuals with vision impairments

Exclusion(s)

- education of individuals with multiple disabilities (See 13.1007-Education/teaching of individuals with multiple disabilities)
- orthoptics (See 51.1804-Orthoptics/orthoptist)

13.1011 Education/teaching of individuals with specific learning disabilities

This instructional program class comprises any program that focuses on the design of educational services for children or adults with specific learning disabilities which adversely affect their educational performance and that prepares individuals to teach such students. These programs include courses in identifying students with specific

learning disabilities, developing individual education plans, teaching and supervising students with specific learning disabilities, counselling, and applicable laws and policies.

Illustrative example(s)

- education of individuals with specific learning disabilities
- teaching of individuals with specific learning disabilities

Exclusion(s)

- teaching special education (See 13.1001-Special education and teaching, general)

13.1012 Education/teaching of individuals with speech or language impairments

This instructional program class comprises any program that focuses on the study and design of educational services for children or adults with speech and language impairments which adversely affect their educational performance and that prepares individuals to teach such students. These programs include courses in identifying students with speech and language impairments, developing individual education plans, teaching and supervising students with speech disabilities, counselling, and applicable laws and policies.

Illustrative example(s)

- education of individuals with speech or language impairments
- teaching of individuals with speech or language impairments

Exclusion(s)

- communication sciences (See 09.0100-Communication, general)
- English speech and rhetorical studies (See 23.1304-English rhetoric and composition)
- French rhetoric and composition (See 55.1304-French rhetoric and composition^{CAN})
- speech communication (See 09.0101-Speech communication and rhetoric)
- speech therapy (See 51.0203-Speech-language pathology/pathologist)

13.1013 Education/teaching of individuals with autism

This instructional program class comprises any program that focuses on the design of educational services for children or adults with autism, and that prepares individuals to teach such students. These programs include courses in identifying students with autism, developing individual education plans, teaching and supervising autistic students, counselling, and applicable laws and policies.

Illustrative example(s)

- education of individuals with autism
- teaching of individuals with autism

Exclusion(s)

- early childhood special education teaching (See 13.1015-Education/teaching of individuals in early childhood special education programs)

13.1014 Education/teaching of individuals who are developmentally delayed

This instructional program class comprises any program that focuses on the design of educational services for children or adults who exhibit slow social, physical, cognitive, and/or emotional growth patterns that affect learning, and that prepares individuals to teach such students. These programs include courses in identification of developmental delay patterns, developing individual education plans, teaching and supervising developmentally delayed students, counselling, and applicable laws and policies.

Illustrative example(s)

- education of individuals who are developmentally delayed
- teaching of individuals who are developmentally delayed

Exclusion(s)

- developmental services worker (DSW) (See 19.0710-Developmental services worker)
- early childhood special education teaching (See 13.1015-Education/teaching of individuals in early childhood special education programs)
- education of intellectually-impaired individuals (See 13.1006-Education/teaching of individuals with intellectual disabilities)

13.1015 Education/teaching of individuals in early childhood special education programs

This instructional program class comprises any program that focuses on the design and provision of teaching and other educational services to infant and preschool age children with special learning needs or disabilities, and that prepares individuals to teach such students. These programs include courses in diagnosing learning disabilities, developing individual education plans, teaching and supervising special education students, special education counselling, and applicable laws and policies.

Illustrative example(s)

- early childhood education special needs
- early childhood special education
- early childhood special education teaching
- teaching early childhood special education programs

Exclusion(s)

- child development (See 19.0706-Child development)
- early childhood and family studies (See 19.0711-Early childhood and family studies)
- early childhood education teaching (Bachelor) (See 13.1210-Early childhood education and teaching)
- early childhood education teaching (college) (See 19.0709-Child care provider/assistant)
- early childhood program administration (See 13.0414-Early childhood program administration)

13.1016 Education/teaching of individuals with traumatic brain injuries

This instructional program class comprises any program that focuses on the design of educational services for children or adults who are surviving and recovering from brain and brain stem injuries affecting their cognitive, perceptive, and motor functions, and that prepares individuals to teach such students. These programs include courses in neurophysiology and neuropathology; speech, other sensory, and motor pathologies; emotional and cognitive disabilities; physical and occupational rehabilitation techniques; developing individual education plans, teaching and supervising brain-injured students, counselling, and applicable laws and policies.

Illustrative example(s)

- education of individuals with traumatic brain injuries
- teaching of individuals with traumatic brain injuries

Exclusion(s)

- kinesiotherapy (See 51.2311-Kinesiotherapy/kinesiotherapist)
- vocational rehabilitation counselling (See 51.2310-Vocational rehabilitation counselling/counsellor)

13.1017 Education/teaching of individuals in elementary special education programs

This instructional program class comprises any program that focuses on the design and provision of teaching and other educational services to children with special learning needs or disabilities who are in the elementary grades. These programs include courses in diagnosing learning disabilities; developing individual education plans; curriculum development, instructional strategies, and classroom management for elementary special education; and teaching elementary education subject matter.

Illustrative example(s)

- education of individuals in elementary special education programs
- teaching of individuals in elementary special education programs

Exclusion(s)

- education of individuals in junior high school special education programs (See 13.1018-Education/teaching of individuals in junior high/middle school special education programs)
- elementary education (See 13.1202-Elementary education and teaching)
- elementary school administration (See 13.0408-Elementary and middle school administration/principalship)
- primary and intermediate education (See 13.1206-Teacher education, multiple levels)
- special education assistant (See 13.1501-Teaching assistants/aides, general)
- teaching special education (See 13.1001-Special education and teaching, general)

13.1018 Education/teaching of individuals in junior high/middle school special education programs

This instructional program class comprises any program that focuses on the design and provision of teaching and other educational services to children with special learning needs or disabilities who are in junior high/middle school. These programs include courses in diagnosing learning disabilities; developing individual education plans; curriculum development, instructional strategies, and classroom management for middle school special education; and principles of middle school instruction in specific subjects.

Illustrative example(s)

- education of individuals in intermediate school special education programs
- education of individuals in junior high school special education programs
- education of individuals in middle school special education programs
- teaching of individuals in intermediate school special education programs
- teaching of individuals in junior high school special education programs
- teaching of individuals in middle school special education programs

Exclusion(s)

- education of individuals in elementary special education programs (See 13.1017-Education/teaching of individuals in elementary special education programs)
- education of individuals in secondary special education programs (See 13.1019-Education/teaching of individuals in secondary special education programs)
- intermediate education (See 13.1203-Junior high/intermediate/middle school education and teaching)
- primary and intermediate education (See 13.1206-Teacher education, multiple levels)
- teaching special education (See 13.1001-Special education and teaching, general)

13.1019 Education/teaching of individuals in secondary special education programs

This instructional program class comprises any program that focuses on the design and provision of teaching and other educational services to children with special learning needs or disabilities who are in the secondary grades. These programs include courses in diagnosing learning disabilities; developing individual education plans; curriculum development, instructional strategies, and classroom management for secondary grades special education; content, methods, and modifications in specific subject areas; issues in vocational education; and promoting successful transitions to postsecondary settings.

Illustrative example(s)

- education of individuals in secondary special education programs
- teaching of individuals in secondary special education programs

Exclusion(s)

- education of individuals in junior high school special education programs (See 13.1018-Education/teaching of individuals in junior high/middle school special education programs)
- secondary education (See 13.1205-Secondary education and teaching)
- secondary school administration (See 13.0409-Secondary school administration/principalship)
- teacher education for multiple school levels (See 13.1206-Teacher education, multiple levels)
- teaching special education (See 13.1001-Special education and teaching, general)

13.1099 Special education and teaching, other

This instructional program class comprises any program not listed above that relates to Special education and teaching.

Illustrative example(s)

- other special education and teaching

13.11 Student counselling and personnel services

This subseries comprises instructional program classes 13.1101 to 13.1199.

13.1101 Counsellor education/school counselling and guidance services

This instructional program class comprises any program that prepares individuals to apply the theory and principles of guidance and counselling to the provision of support for the personal, social, educational, and vocational development of students, and the organizing of guidance services within elementary, middle and secondary educational institutions. These programs include courses in legal and professional requirements, therapeutic counsellor intervention, vocational counselling, and related sociological and psychological foundations.

Illustrative example(s)

- education counselling
- education guidance
- educational and career counselling
- guidance and counselling
- guidance counselling
- school counsellor

Exclusion(s)

- clinical pastoral counselling (See 51.1506-Clinical pastoral counselling/patient counselling)
- college student counselling and personnel services (See 13.1102-College student counselling and personnel services)
- drug and alcohol counselling (See 51.1501-Substance abuse/addiction counselling)
- marriage and family counselling (See 51.1505-Marriage and family therapy/counselling)
- pastoral counselling (See 39.0701-Pastoral studies/counselling)
- psychological counselling (See 42.2803-Counselling psychology)

13.1102 College student counselling and personnel services

This instructional program class comprises any program that focuses on the organization and provision of counselling, referral, assistance and administrative services to students in postsecondary educational institutions and adult education facilities, and that prepares individuals to function as professional counsellors in such settings. These programs include courses in applicable laws and policies, residential counselling and services, vocational counselling and placement services, remedial skills counselling, and therapeutic counsellor intervention.

Illustrative example(s)

- college counsellor
- college student counselling and personnel services

Exclusion(s)

- clinical pastoral counselling (See 51.1506-Clinical pastoral counselling/patient counselling)
- guidance counsellor (See 13.1101-Counsellor education/school counselling and guidance services)
- marriage and family counselling (See 51.1505-Marriage and family therapy/counselling)
- pastoral counselling (See 39.0701-Pastoral studies/counselling)
- psychological counselling (See 42.2803-Counselling psychology)

- substance abuse counselling (See 51.1501-Substance abuse/addiction counselling)

13.1199 Student counselling and personnel services, other

This instructional program class comprises any program not listed above that relates to Student counselling and personnel services.

Illustrative example(s)

- other student counselling and personnel services

Exclusion(s)

- marriage and family counselling (See 51.1505-Marriage and family therapy/counselling)
- pastoral counselling (See 39.0701-Pastoral studies/counselling)
- psychological counselling (See 42.2803-Counselling psychology)
- substance abuse counselling (See 51.1501-Substance abuse/addiction counselling)

13.12 Teacher education and professional development, specific levels and methods

This subseries comprises instructional program classes 13.1201 to 13.1299.

13.1201 Adult and continuing education and teaching

This instructional program class comprises any program that prepares individuals to teach adult students in various settings, including basic and remedial education programs, continuing education programs, and programs designed to develop or upgrade specific employment-related knowledge and skills.

Illustrative example(s)

- adult education
- adult education teacher
- adult teacher education
- continuing education teacher
- extension education teacher
- workplace trainer

Exclusion(s)

- adult and vocational education (See 13.9999-Education, other)
- adult literacy instructor (See 13.1502-Adult literacy tutor/instructor)

13.1202 Elementary education and teaching

This instructional program class comprises any program that prepares individuals to teach students in the elementary grades, which may include kindergarten through grade eight, depending on the school system and applicable regulations. Includes preparation to teach all elementary education subject matter.

Illustrative example(s)

- elementary education
- elementary school teacher
- elementary teacher training
- primary education
- primary school teacher
- teaching elementary school

Exclusion(s)

- child care provider (See 19.0709-Child care provider/assistant)
- early childhood education teaching (Bachelor) (See 13.1210-Early childhood education and teaching)
- education of individuals in elementary special education programs (See 13.1017-Education/teaching of individuals in elementary special education programs)

- Montessori teaching (See 13.1207-Montessori teacher education)
- preschool teacher (See 13.1209-Kindergarten/preschool education and teaching)
- teacher education for multiple school levels (See 13.1206-Teacher education, multiple levels)
- Waldorf/Steiner teacher education (See 13.1208-Waldorf/Steiner teacher education)

13.1203 Junior high/intermediate/middle school education and teaching

This instructional program class comprises any program that prepares individuals to teach students in the middle, intermediate or junior high grades, which may include grades four through ten, depending on applicable regulations.

Illustrative example(s)

- intermediate education
- intermediate school education
- intermediate school teacher
- junior and intermediate education
- junior high education
- junior high school education
- junior high school teacher
- junior high teacher
- middle school education
- middle school teacher

Exclusion(s)

- education of individuals in junior high school special education programs (See 13.1018-Education/teaching of individuals in junior high/middle school special education programs)
- elementary school teacher (See 13.1202-Elementary education and teaching)
- secondary school teacher (See 13.1205-Secondary education and teaching)
- teacher education for multiple school levels (See 13.1206-Teacher education, multiple levels)

13.1205 Secondary education and teaching

This instructional program class comprises any program that prepares individuals to teach students in the secondary grades, which may include grades seven through twelve, depending on the school system and applicable regulations. May include preparation to teach a comprehensive curriculum or specific subject matter.

Illustrative example(s)

- high school education
- high school teacher
- secondary education
- secondary school education
- secondary school teacher
- secondary school teacher training
- secondary teaching
- senior high school education
- senior high school teacher
- senior secondary school education

Exclusion(s)

- education of individuals in secondary special education programs (See 13.1019-Education/teaching of individuals in secondary special education programs)
- junior and intermediate education (See 13.1203-Junior high/intermediate/middle school education and teaching)
- postsecondary teacher education (See 13.1214-Postsecondary/college/university teaching)
- teacher education for multiple school levels (See 13.1206-Teacher education, multiple levels)

13.1206 Teacher education, multiple levels

This instructional program class comprises any program that prepares individuals to teach students at more than one educational level, such as a combined program in elementary/secondary, early childhood/elementary, elementary/middle school, or junior high/high school teacher education.

Illustrative example(s)

- intermediate and secondary education
- kindergarten and elementary education
- preschool and primary teaching
- primary and intermediate education
- teacher education for multiple school levels
- teacher of multiple school levels

Exclusion(s)

- early childhood education teaching (Bachelor) (See 13.1210-Early childhood education and teaching)
- early childhood special education teaching (See 13.1015-Education/teaching of individuals in early childhood special education programs)
- education of individuals in elementary special education programs (See 13.1017-Education/teaching of individuals in elementary special education programs)
- education of individuals in junior high school special education programs (See 13.1018-Education/teaching of individuals in junior high/middle school special education programs)
- education of individuals in secondary special education programs (See 13.1019-Education/teaching of individuals in secondary special education programs)
- elementary school teacher (See 13.1202-Elementary education and teaching)
- kindergarten teaching (See 13.1209-Kindergarten/preschool education and teaching)
- Montessori teaching (See 13.1207-Montessori teacher education)
- postsecondary teacher education (See 13.1214-Postsecondary/college/university teaching)
- secondary school teacher (See 13.1205-Secondary education and teaching)
- Waldorf/Steiner teacher education (See 13.1208-Waldorf/Steiner teacher education)

13.1207 Montessori teacher education

This instructional program class comprises any program that prepares individuals to teach students at various grade levels according to the pedagogical principles and methods developed by Maria Montessori and her followers.

Illustrative example(s)

- Montessori preschool teacher
- Montessori teacher
- Montessori teacher education
- Montessori teaching

Exclusion(s)

- early childhood education teaching (Bachelor) (See 13.1210-Early childhood education and teaching)
- early childhood special education teaching (See 13.1015-Education/teaching of individuals in early childhood special education programs)
- elementary school teacher (See 13.1202-Elementary education and teaching)
- kindergarten teaching (See 13.1209-Kindergarten/preschool education and teaching)
- Waldorf/Steiner teacher education (See 13.1208-Waldorf/Steiner teacher education)

13.1208 Waldorf/Steiner teacher education

This instructional program class comprises any program that prepares individuals to teach students at various grade levels according to the pedagogical principles and methods developed by Rudolf Steiner and his followers.

Illustrative example(s)

- Waldorf/Steiner teacher education

Exclusion(s)

- early childhood education teaching (Bachelor) (See 13.1210-Early childhood education and teaching)
- early childhood special education teaching (See 13.1015-Education/teaching of individuals in early childhood special education programs)
- elementary school teacher (See 13.1202-Elementary education and teaching)
- kindergarten teaching (See 13.1209-Kindergarten/preschool education and teaching)

13.1209 Kindergarten/preschool education and teaching

This instructional program class comprises any program that prepares individuals to teach children, in formal settings, prior to beginning regular elementary school. Depending on the school system and applicable regulations, students may range in age from three to six years. Includes preparation to teach all relevant subject matter.

Illustrative example(s)

- kindergarten education
- kindergarten teacher
- kindergarten teaching
- preschool education
- preschool teacher
- preschool teaching

Exclusion(s)

- child care provider (See 19.0709-Child care provider/assistant)
- early childhood education teaching (Bachelor) (See 13.1210-Early childhood education and teaching)
- early childhood special education teaching (See 13.1015-Education/teaching of individuals in early childhood special education programs)
- Montessori teaching (See 13.1207-Montessori teacher education)
- teacher education for multiple school levels (See 13.1206-Teacher education, multiple levels)

13.1210 Early childhood education and teaching

This instructional program class comprises any program that prepares individuals to teach students that can range in age from infancy through eight years, depending on the school system and applicable regulations. Includes preparation to teach all relevant subject matter.

Illustrative example(s)

- early childhood education (Bachelor degree)
- early childhood education (Master's degree)
- early childhood education and teaching (Bachelor degree)
- early childhood education and teaching (Master's degree)
- early childhood education and teaching (university)
- early childhood education teacher (Bachelor degree)
- early childhood education teacher (Master's degree)
- early childhood education teaching (Bachelor degree)
- early childhood education teaching (Master's degree)
- ECE (university)

Exclusion(s)

- child care provider (See 19.0709-Child care provider/assistant)
- early childhood and family studies (See 19.0711-Early childhood and family studies)
- early childhood program administration (See 13.0414-Early childhood program administration)

- early childhood special education teaching (See 13.1015-Education/teaching of individuals in early childhood special education programs)
- primary education (See 13.1202-Elementary education and teaching)
- teacher education for multiple school levels (See 13.1206-Teacher education, multiple levels)

13.1211 Online educator/online teaching

This instructional program class comprises any program that prepares individuals to teach students at various academic levels through online instructional technologies. These programs include courses in andragogy, pedagogy, assessment, instructional design and technology, and learning science.

Illustrative example(s)

- online educator
- online teacher
- online teaching
- online teaching and learning

Exclusion(s)

- distance learning teacher (See 13.1299-Teacher education and professional development, specific levels and methods, other)

13.1212 International Baccalaureate teaching and learning

This instructional program class comprises any program that prepares individuals to teach in schools that are implementing or proposing to implement the International Baccalaureate curriculum. These programs include courses in culturally responsive classrooms, cross-cultural awareness, foundations of international education, human learning, human development, international teaching and learning, and pedagogy.

Illustrative example(s)

- International Baccalaureate (IB) teaching
- International Baccalaureate teacher
- International Baccalaureate teaching
- International Baccalaureate teaching and learning

Exclusion(s)

- international and comparative education (See 13.0701-International and comparative education)
- international baccalaureate (IB) (See 53.0104-Honours/regents high school/secondary diploma programs)
- international school administration (See 13.0412-International school administration/leadership)

13.1213 Science, technology, engineering, and mathematics (STEM) educational methods

This instructional program class comprises any program that prepares individuals to connect education practices with scientific, engineering, and mathematical principles for PreK-12 students. These programs include courses in critical thinking, curriculum and instruction, history of STEM education, integrating STEM across curricula, learning sciences and technology, STEM education methods, and teacher leadership in STEM education.

Illustrative example(s)

- science, technology, engineering, and mathematics (STEM) educational methods
- science, technology, engineering, and mathematics educational methods
- STEM educational methods

Exclusion(s)

- mathematics teacher education (See 13.1311-Mathematics teacher education)
- science teacher education (See 13.1316-Science teacher education/general science teacher education)
- technology teacher education (See 13.1309-Technology teacher education/industrial arts teacher education)

13.1214 Postsecondary/college/university teaching

This instructional program class comprises any program that prepares individuals to teach at a postsecondary institution. These programs include courses in andragogy, assessment, classroom motivation, instructional design and technology, learner-centered teaching, learning science, syllabus construction, and teaching critical thinking.

Illustrative example(s)

- CEGEP instructor
- college instructor
- college teaching
- postsecondary instructor education
- postsecondary teacher education
- postsecondary teaching
- university professor
- university teaching

Exclusion(s)

- college administration (See 13.0407-Community college and general and vocational college (CEGEP) administration)
- university administration (See 13.0406-Higher education/higher education administration)

13.1299 Teacher education and professional development, specific levels and methods, other

This instructional program class comprises any program not listed above that relates to Teacher education and professional development, specific levels and methods.

Illustrative example(s)

- distance learning teacher
- other teacher education and professional development, specific levels and methods

Exclusion(s)

- online teaching (See 13.1211-Online educator/online teaching)
- postsecondary teaching (See 13.1214-Postsecondary/college/university teaching)

13.13 Teacher education and professional development, specific subject areas

This subseries comprises instructional program classes 13.1301 to 13.1399.

13.1301 Agricultural teacher education

This instructional program class comprises any program that prepares individuals to teach vocational agricultural programs at various educational levels.

Illustrative example(s)

- agricultural teacher
- agricultural teacher education
- agriculture education
- agriculture teaching

Exclusion(s)

- agricultural extension (See 01.0801-Agricultural and extension education services)

13.1302 Art teacher education

This instructional program class comprises any program that prepares individuals to teach art and art appreciation programs at various educational levels.

Illustrative example(s)

- art education
- art history education
- art teacher
- art teaching
- ceramic teacher
- fine arts education
- fine arts teaching
- plastic arts teaching
- teaching art
- visual arts education

Exclusion(s)

- art (See 36.0110-Art (not for credit))
- art studies (See 50.0701-Art/art studies, general)
- dance teacher (See 13.1324-Drama and dance teacher education)
- handicrafts and model-making (See 36.0102-Handicrafts and model-making (not for credit))
- industrial arts teacher (See 13.1309-Technology teacher education/industrial arts teacher education)
- music teacher (See 13.1312-Music teacher education)

13.1303 Business and innovation/entrepreneurship teacher education

This instructional program class comprises any program that prepares individuals to teach vocational business, innovation, and entrepreneurship programs at various educational levels. These programs include courses in business administration, business development, finance, idea generation, investing, logistics, management, and marketing.

Illustrative example(s)

- accounting teaching
- administration teaching
- business education
- business teacher
- business teacher education
- commerce education
- teaching accounting
- teaching administration
- teaching secretarial skills

Exclusion(s)

- business studies (See 52.0101-Business/commerce, general)
- education entrepreneurship (See 13.0413-Education entrepreneurship)
- sales and marketing operations teacher education (See 13.1310-Sales and marketing operations/marketing and distribution teacher education)

13.1304 Driver and safety teacher education

This instructional program class comprises any program that prepares individuals to teach driver and safety education programs at various educational levels.

Illustrative example(s)

- driver and safety instructor
- driver instructor
- driving instructor
- driving school instructor

Exclusion(s)

- driver education (not for credit) (See 36.0203-Automobile driver education (not for credit))
- truck driving instructor (See 49.0205-Truck and bus driver/commercial vehicle operator and instructor)

13.1305 English/English language arts teacher education

This instructional program class comprises any program that prepares individuals to teach English grammar, composition and literature programs at various educational levels.

Illustrative example(s)

- English education
- English language arts education
- English literature education
- English teacher
- English teacher education
- English teaching
- teaching English

Exclusion(s)

- English as a second language (See 16.1701-English as a second language)
- English language and literature (See 23.0101-English language and literature, general)
- English literature (See 23.1401-English literature, general)
- second language teaching (See 13.1499-Teaching English or French as a second or foreign language, other)
- teaching English as a second language (See 13.1401-Teaching English as a second or foreign language/ESL language instructor)

13.1306 Indigenous and foreign language teacher education

This instructional program class comprises any program that prepares individuals to teach Indigenous and foreign languages at various educational levels. This class does not include the teaching of English, French, Spanish, German or Latin.

Illustrative example(s)

- Aboriginal language teacher
- Aboriginal language teacher education
- Chinese teacher
- foreign language teacher
- foreign language teacher education
- Hebrew teacher
- Indigenous language teacher
- Indigenous language teacher education
- Native language teacher
- teaching foreign languages

Exclusion(s)

- foreign languages and literature (See 16.0101-Indigenous and foreign languages and literatures, general)
- Indigenous languages and literature (See 16.1001-Indigenous languages, literatures, and linguistics of the Americas)
- Native as a second language (See 16.1799-Second language learning, other)
- second language learning (not for credit) (See 32.0109-Second language learning (not for credit))

13.1307 Health teacher education

This instructional program class comprises any program that prepares individuals to teach health education programs at various educational levels.

Illustrative example(s)

- health teacher
- health teacher education

Exclusion(s)

- dietetics education (See 13.1327-Health occupations teacher education)
- health and fitness studies (See 31.0501-Sports, kinesiology, and physical education/physical fitness, general)
- health professions education (See 51.3202-Health professions education)
- nursing education (See 51.3203-Nursing education)
- public health education and promotion (See 51.2207-Public health education and promotion)

13.1308 Family and consumer sciences/home economics teacher education

This instructional program class comprises any program that prepares individuals to teach vocational home economics programs at various educational levels.

Illustrative example(s)

- family and consumer sciences teacher education
- family and consumer studies teaching
- family life education
- family studies education
- home economics education
- home economics teacher
- home economics teacher education
- home economics teaching

Exclusion(s)

- home economics (See 19.0101-Family and consumer sciences/human sciences, general)

13.1309 Technology teacher education/industrial arts teacher education

This instructional program class comprises any program that prepares individuals to teach technology education/industrial arts programs at various educational levels.

Illustrative example(s)

- industrial arts education
- industrial arts teacher
- industrial arts teacher education
- technology education
- technology teacher
- technology teacher education

Exclusion(s)

- industrial education (See 13.1320-Trade and industrial teacher education)
- introduction to trades (See 21.0101-Pre-technology education/pre-industrial arts programs)
- vocational technical education (See 13.1319-Technical teacher education)

13.1310 Sales and marketing operations/marketing and distribution teacher education

This instructional program class comprises any program that prepares individuals to teach vocational sales and marketing operations/marketing and distributive education programs at various educational levels.

Illustrative example(s)

- marketing and distribution teacher education
- marketing education

- marketing teacher
- sales and marketing operations teacher education
- teaching marketing

Exclusion(s)

- business education (See 13.1303-Business and innovation/entrepreneurship teacher education)
- marketing communications (See 09.0903-Advertising)
- sales and marketing (See 52.1801-Sales, distribution and marketing operations, general)

13.1311 Mathematics teacher education

This instructional program class comprises any program that prepares individuals to teach mathematics programs at various educational levels.

Illustrative example(s)

- elementary mathematics teacher education
- math teacher
- mathematics education
- mathematics teacher
- mathematics teacher education
- middle school mathematics teacher education
- secondary mathematics education
- secondary mathematics teacher education
- teaching mathematics

13.1312 Music teacher education

This instructional program class comprises any program that prepares individuals to teach music and music appreciation programs at various educational levels.

Illustrative example(s)

- music education
- music teacher
- music teacher education
- music teaching

Exclusion(s)

- brass instruments (See 50.0914-Brass instruments)
- music - percussion (See 50.0916-Percussion instruments)
- music (See 50.0901-Music, general)
- music (not for credit) (See 36.0115-Music (not for credit))
- music pedagogy (See 50.0912-Music pedagogy)
- religious music (See 39.0501-Religious/sacred music)
- woodwind (See 50.0915-Woodwind instruments)

13.1314 Physical education teaching and coaching

This instructional program class comprises any program that prepares individuals to teach physical education programs and/or to coach sports at various educational levels.

Illustrative example(s)

- physical education teacher
- physical education teaching
- physical education teaching and coaching

Exclusion(s)

- athletic trainer (See 51.0913-Athletic training/trainer)

- equestrian coaching (See 01.0507-Equestrian/equine studies)
- fitness trainer (See 31.0507-Physical fitness technician)
- physical education (See 31.0501-Sports, kinesiology, and physical education/physical fitness, general)

13.1315 Reading teacher education

This instructional program class comprises any program that prepares individuals to diagnose reading difficulties and to teach reading programs at various educational levels.

Illustrative example(s)

- education reading specialist
- reading education
- reading teacher
- reading teacher education

Exclusion(s)

- literacy and communication skills (not for credit) (See 32.0108-Literacy and communication skills (not for credit))
- reading (See 36.0116-Reading (not for credit))

13.1316 Science teacher education/general science teacher education

This instructional program class comprises any program that prepares individuals to teach general science programs, or a combination of the biological and physical science subject matter areas, at various educational levels.

Illustrative example(s)

- science education
- science teacher
- science teacher education
- science teaching

Exclusion(s)

- biological and physical sciences (See 30.0101-Biological and physical sciences)
- biology teacher (See 13.1322-Biology teacher education)
- chemistry teacher (See 13.1323-Chemistry teacher education)
- environmental education (See 13.1338-Environmental teacher education)
- geology education (See 13.1337-Earth science teacher education)
- physics teacher education (See 13.1329-Physics teacher education)

13.1317 Social science teacher education

This instructional program class comprises any program that prepares individuals to teach specific social science subjects and programs at various educational levels.

Illustrative example(s)

- anthropology education
- economics education
- political science education
- social science teacher
- social science teacher education
- social sciences education
- social sciences teacher training
- sociology education
- sociology teaching

Exclusion(s)

- social studies education (See 13.1318-Social studies teacher education)

13.1318 Social studies teacher education

This instructional program class comprises any program that prepares individuals to teach general social studies programs at various educational levels.

Illustrative example(s)

- social studies education
- social studies teacher
- social studies teacher education
- social studies teaching

Exclusion(s)

- social science teacher education (See 13.1317-Social science teacher education)
- social studies (See 45.0101-Social sciences, general)

13.1319 Technical teacher education

This instructional program class comprises any program that prepares individuals to teach specific vocational technical education programs at various educational levels.

Illustrative example(s)

- technical education
- technical teacher
- technical teacher education
- vocational technical education

Exclusion(s)

- computer education (See 13.1321-Computer teacher education)
- trade and industrial teacher education (See 13.1320-Trade and industrial teacher education)

13.1320 Trade and industrial teacher education

This instructional program class comprises any program that prepares individuals to teach specific vocational trades and industries programs at various educational levels.

Illustrative example(s)

- auto mechanic teacher
- carpentry teaching
- electronics education
- electronics teaching
- industrial education
- mechanics teaching
- teaching cooking
- trade and industrial teacher
- trade and industrial teacher education
- welding teacher

Exclusion(s)

- computer education (See 13.1321-Computer teacher education)
- technology education (See 13.1309-Technology teacher education/industrial arts teacher education)
- vocational technical education (See 13.1319-Technical teacher education)

13.1321 Computer teacher education

This instructional program class comprises any program that prepares individuals to teach computer education programs at various educational levels.

Illustrative example(s)

- computer education
- computer science education
- computer teacher
- computer teacher education

Exclusion(s)

- computer and information sciences (See 11.0101-Computer and information sciences, general)
- trade and industrial teacher education (See 13.1320-Trade and industrial teacher education)
- vocational technical education (See 13.1319-Technical teacher education)

13.1322 Biology teacher education

This instructional program class comprises any program that prepares individuals to teach biology programs at various educational levels.

Illustrative example(s)

- biochemistry education
- biology education
- biology teacher
- biology teacher education
- biology teaching

Exclusion(s)

- biology (See 26.0101-Biology/biological sciences, general)
- environmental education (See 13.1338-Environmental teacher education)
- science teacher education (See 13.1316-Science teacher education/general science teacher education)

13.1323 Chemistry teacher education

This instructional program class comprises any program that prepares individuals to teach chemistry programs at various educational levels.

Illustrative example(s)

- chemistry education
- chemistry teacher
- chemistry teacher education
- chemistry teaching

Exclusion(s)

- chemistry (See 40.0501-Chemistry, general)
- science teacher education (See 13.1316-Science teacher education/general science teacher education)

13.1324 Drama and dance teacher education

This instructional program class comprises any program that prepares individuals to teach drama and/or dance programs at various educational levels.

Illustrative example(s)

- ballet teacher
- dance teacher
- drama and dance teacher education

- drama education
- drama teacher

Exclusion(s)

- dance (See 50.0301-Dance, general)
- dancing (not for credit) (See 36.0114-Dancing (not for credit))
- dramatic arts (See 50.0501-Drama and dramatics/theatre arts, general)
- fine arts teaching (See 13.1302-Art teacher education)
- theatre (not for credit) (See 36.0117-Theatre (not for credit))

13.1325 French language/French language arts teacher education

This instructional program class comprises any program that prepares individuals to teach French grammar, composition and literature programs at various educational levels.

Illustrative example(s)

- French education
- French language arts education
- French language teacher education
- French literature education
- French teacher
- French teaching
- teaching French

Exclusion(s)

- French as a second language (See 16.1702-French as a second language^{CAN})
- French general literature (See 55.1401-French literature, general)
- French language and literature (See 55.0101-French language and literature, general)
- French studies (See 05.0124-French studies)
- second language learning (not for credit) (See 32.0109-Second language learning (not for credit))
- teaching French as a second language (See 13.1402-Teaching French as a second or foreign language)

13.1326 German language teacher education

This instructional program class comprises any program that prepares individuals to teach German language programs at various educational levels.

Illustrative example(s)

- German language teacher education
- German teacher
- teaching German

Exclusion(s)

- German language and literature (See 16.0501-German language and literature)
- German studies (See 05.0125-German studies)
- Germanic languages (See 16.0500-Germanic languages, literatures and linguistics, general)
- second language learning (not for credit) (See 32.0109-Second language learning (not for credit))

13.1327 Health occupations teacher education

This instructional program class comprises any program that prepares individuals to teach specific vocational health occupations programs at various educational levels.

Illustrative example(s)

- dental hygiene education
- dietetics education
- dietetics teaching

- health occupations teacher
- health occupations teacher education
- pharmacy education

Exclusion(s)

- dental public health and education (Cert., MS, MSc, MPH, PhD, DPH) (See 51.0504-Dental public health and education (Cert., MS, MSc, MPH, PhD, DPH))
- health professions education (See 51.3202-Health professions education)
- health teacher education (See 13.1307-Health teacher education)
- nursing education (See 51.3203-Nursing education)
- public health education and promotion (See 51.2207-Public health education and promotion)

13.1328 History teacher education

This instructional program class comprises any program that prepares individuals to teach history programs at various educational levels.

Illustrative example(s)

- history education
- history teacher
- history teacher education
- teaching history

Exclusion(s)

- history (See 54.0101-History, general)
- history of education (See 13.0901-Social and philosophical foundations of education)
- social science teacher education (See 13.1317-Social science teacher education)

13.1329 Physics teacher education

This instructional program class comprises any program that prepares individuals to teach physics programs at various educational levels.

Illustrative example(s)

- physics education
- physics teacher
- physics teacher education
- teaching physics

Exclusion(s)

- engineering physics (See 14.1201-Engineering physics/applied physics)
- physical education teacher (See 13.1314-Physical education teaching and coaching)
- physics (See 40.0801-Physics, general)
- science teacher education (See 13.1316-Science teacher education/general science teacher education)

13.1330 Spanish language teacher education

This instructional program class comprises any program that prepares individuals to teach Spanish language programs at various educational levels.

Illustrative example(s)

- Spanish education
- Spanish language teacher education
- Spanish teacher
- teaching Spanish

Exclusion(s)

- second language learning (not for credit) (See 32.0109-Second language learning (not for credit))
- Spanish as a second language (See 16.1799-Second language learning, other)
- Spanish language and literature (See 16.0905-Spanish language and literature)
- Spanish studies (See 05.0130-Spanish and Iberian studies)
- teaching foreign languages (See 13.1306-Indigenous and foreign language teacher education)

13.1331 Speech teacher education

This instructional program class comprises any program that prepares individuals to teach speech and language arts programs at various educational levels.

Illustrative example(s)

- speech teacher
- speech teacher education

Exclusion(s)

- communication studies (See 09.0100-Communication, general)
- education of individuals with speech or language impairments (See 13.1012-Education/teaching of individuals with speech or language impairments)
- English speech and rhetorical studies (See 23.1304-English rhetoric and composition)
- speech communication (See 09.0101-Speech communication and rhetoric)
- speech therapy (See 51.0203-Speech-language pathology/pathologist)
- speech therapy and audiology (See 51.0204-Audiology/audiologist and speech-language pathology/pathologist)

13.1332 Geography teacher education

This instructional program class comprises any program that prepares individuals to teach geography at various grade levels.

Illustrative example(s)

- geography education
- geography teacher
- geography teacher education
- teaching geography

Exclusion(s)

- geography (See 45.0701-Geography)
- social science teacher education (See 13.1317-Social science teacher education)

13.1333 Latin teacher education

This instructional program class comprises any program that prepares individuals to teach Latin at various grade levels.

Illustrative example(s)

- Latin education
- Latin teacher
- Latin teacher education
- teaching Latin

Exclusion(s)

- classical languages (See 16.1200-Classics and classical languages, literatures and linguistics, general)
- Latin (See 16.1203-Latin language and literature)

13.1334 School librarian/school library media specialist

This instructional program class comprises any program that prepares individuals to serve as librarians and media specialists in elementary and secondary schools as well as special instructional centres.

Illustrative example(s)

- school librarian
- school library media specialist

Exclusion(s)

- library and information science (See 25.0101-Library and information science)
- library technology (See 25.0301-Library and archives assisting)

13.1335 Psychology teacher education

This instructional program class comprises any program that prepares individuals to teach general psychology at the secondary school level.

Illustrative example(s)

- psychology teacher
- psychology teacher education
- psychology teaching

Exclusion(s)

- applied psychology (See 42.2813-Applied psychology)
- educational psychology (See 42.2806-Educational psychology)
- psychological counselling (See 42.2803-Counselling psychology)
- psychology (See 42.0101-Psychology, general)

13.1337 Earth science teacher education

This instructional program class comprises any program that prepares individuals to teach Earth science programs at various educational levels.

Illustrative example(s)

- Earth science teacher
- Earth science teacher education
- geology education
- geosciences education

Exclusion(s)

- Earth science (See 40.0601-Geology/Earth science, general)
- environmental education (See 13.1338-Environmental teacher education)
- science teacher education (See 13.1316-Science teacher education/general science teacher education)

13.1338 Environmental teacher education

This instructional program class comprises any program that prepares individuals to teach environmental education at various educational levels as a K-12 classroom educator. These programs include courses in foundations of environmental education, instructional methods, and related content knowledge.

Illustrative example(s)

- environmental education
- environmental education teacher
- environmental studies teacher
- environmental teacher
- environmental teacher education

Exclusion(s)

- biology teacher (See 13.1322-Biology teacher education)
- Earth science teacher education (See 13.1337-Earth science teacher education)
- environmental science (See 03.0104-Environmental science)
- environmental studies (See 03.0103-Environmental studies)
- science teacher education (See 13.1316-Science teacher education/general science teacher education)

13.1339 Communication arts and literature teacher education

This instructional program class comprises any program that prepares individuals to teach oral expression, literature, and writing to students at various education levels. These programs include courses in interpersonal communication, intercultural communication, language learning, listening instructional techniques, public speaking, reading instructional techniques, writing instructional techniques, and practical teaching experience.

Illustrative example(s)

- communication arts and literature teacher education

Exclusion(s)

- English language arts education (See 13.1305-English/English language arts teacher education)
- English literature education (See 13.1305-English/English language arts teacher education)
- French language arts education (See 13.1325-French language/French language arts teacher education)
- French literature education (See 13.1325-French language/French language arts teacher education)

13.1399 Teacher education and professional development, specific subject areas, other

This instructional program class comprises any program not listed above that relates to Teacher education and professional development, specific subject areas.

Illustrative example(s)

- classics education
- communication education
- other teacher education and professional development, specific subject areas
- religious education teacher (Bachelor of Education)

Exclusion(s)

- dental public health and education (Cert., MS, MSc, MPH, PhD, DPH) (See 51.0504-Dental public health and education (Cert., MS, MSc, MPH, PhD, DPH))
- religious education (except Bachelor of Education) (See 39.0401-Religious education)
- second language teaching (See 13.1499-Teaching English or French as a second or foreign language, other)
- teaching English as a second language (See 13.1401-Teaching English as a second or foreign language/ESL language instructor)
- teaching French as a second language (See 13.1402-Teaching French as a second or foreign language)

13.14 Teaching English or French as a second or foreign language

This subseries comprises instructional program classes 13.1401 to 13.1499.

13.1401 Teaching English as a second or foreign language/ESL language instructor

This instructional program class comprises any program that focuses on the principles and practice of teaching English to students who are not proficient in English or who do not speak, read or write English, and that prepares individuals to function as teachers and administrators in such programs.

Illustrative example(s)

- teaching English as a second language
- teaching English to Speakers of Other Languages
- teaching ESL

- TESL
- TESOL

Exclusion(s)

- bilingual and multilingual education (See 13.0201-Bilingual and multilingual education)
- English as a second language (See 16.1701-English as a second language)
- English language and literature (See 23.0101-English language and literature, general)
- English teacher (See 13.1305-English/English language arts teacher education)
- second language learning (not for credit) (See 32.0109-Second language learning (not for credit))
- second language teaching (See 13.1499-Teaching English or French as a second or foreign language, other)

13.1402 Teaching French as a second or foreign language

This instructional program class comprises any program that focuses on the principles and practice of teaching French to students who are not proficient in French or who do not speak, read, or write French, and prepares individuals to serve as teachers and administrators.

Illustrative example(s)

- teaching French as a second language

Exclusion(s)

- bilingual and multilingual education (See 13.0201-Bilingual and multilingual education)
- French as a second language (See 16.1702-French as a second language)
- French teacher (See 13.1325-French language/French language arts teacher education)
- second language learning (not for credit) (See 32.0109-Second language learning (not for credit))
- teaching foreign languages (See 13.1306-Indigenous and foreign language teacher education)

13.1499 Teaching English or French as a second or foreign language, other

This instructional program class comprises any program not listed above that relates to Teaching English or French as a second or foreign language.

Illustrative example(s)

- other teaching English or French as a second or foreign language
- second language teaching

Exclusion(s)

- bilingual and multilingual education (See 13.0201-Bilingual and multilingual education)
- English teacher (See 13.1305-English/English language arts teacher education)
- French teacher (See 13.1325-French language/French language arts teacher education)
- second language learning (not for credit) (See 32.0109-Second language learning (not for credit))
- teaching English as a second language (See 13.1401-Teaching English as a second or foreign language/ESL language instructor)
- teaching French as a second language (See 13.1402-Teaching French as a second or foreign language)

13.15 Teaching assistants/aides

This subseries comprises instructional program classes 13.1501 to 13.1599.

13.1501 Teaching assistants/aides, general

This instructional program class comprises any program that prepares individuals to assist a teacher in regular classroom settings or in providing instruction and supervision to special student populations, such as bilingual/bicultural students, special education students, adult learners, and students learning English. These programs include courses in techniques of general classroom supervision, maintaining order, assisting with lessons and carrying out related assignments.

Illustrative example(s)

- early childhood education teacher assistant/aide
- education assistant
- educational assistant
- elementary education teacher assistant/aide
- Indigenous classroom assistant
- special education assistant
- special education teacher assistant/aide
- special needs teacher assistant
- teacher aide
- teaching assistant

Exclusion(s)

- adult literacy instructor (See 13.1502-Adult literacy tutor/instructor)
- early childhood educator assistant (See 19.0709-Child care provider/assistant)
- education of individuals in elementary special education programs (See 13.1017-Education/teaching of individuals in elementary special education programs)

13.1502 Adult literacy tutor/instructor

This instructional program class comprises any program that prepares individuals to serve as instructors and mentors for adults in basic or functional literacy programs in school, institutional, community, and private settings.

Illustrative example(s)

- adult literacy education
- adult literacy educator
- adult literacy instruction
- adult literacy instructor
- adult literacy tutor

Exclusion(s)

- adult education (See 13.1201-Adult and continuing education and teaching)
- literacy and communication skills (not for credit) (See 32.0108-Literacy and communication skills (not for credit))
- teaching assistant (See 13.1501-Teaching assistants/aides, general)

13.1599 Teaching assistants/aides, other

This instructional program class comprises any program not listed above that relates to Teaching assistants/aides.

Illustrative example(s)

- other teaching assistants/aides

Exclusion(s)

- adult literacy instructor (See 13.1502-Adult literacy tutor/instructor)
- teaching assistant (See 13.1501-Teaching assistants/aides, general)

13.99 Education, other

This subseries comprises instructional program class 13.9999.

13.9999 Education, other

This instructional program class comprises any program not listed above that relates to Education.

Illustrative example(s)

- administration and evaluation in education

- adult and vocational education
- adult, community and higher education
- other education

Exclusion(s)

- agricultural extension (See 01.0801-Agricultural and extension education services)
- athletic trainer (See 51.0913-Athletic training/trainer)
- dental public health and education (Cert., MS, MSc, MPH, PhD, DPH) (See 51.0504-Dental public health and education (Cert., MS, MSc, MPH, PhD, DPH))
- diving instructor (See 49.0304-Diver, professional and instructor)
- flight instructor (See 49.0108-Flight instructor)
- hairdressing instructor (See 12.0413-Cosmetology, barber/styling and nail instructor)
- public health education and promotion (See 51.2207-Public health education and promotion)
- religious education (except Bachelor of Education) (See 39.0401-Religious education)
- yoga teacher (See 51.3602-Yoga teacher training/yoga therapy)

14. Engineering

This series comprises instructional programs that prepare individuals to apply mathematical and scientific principles to the solution of practical problems.

14.01 General engineering

This subseries comprises instructional program classes 14.0101 to 14.0103.

14.0101 Engineering, general

This instructional program class comprises any program that generally prepares individuals to apply mathematical and scientific principles to solve a wide variety of practical problems in industry, social organization, public works, and commerce. These programs include courses in undifferentiated and individualized programs in engineering.

Illustrative example(s)

- engineering
- general engineering

Exclusion(s)

- biological engineering (See 14.4501-Biological/biosystems engineering)
- engineering chemistry (See 14.4401-Engineering chemistry)
- engineering design (See 15.1502-Engineering design)
- locomotive engineer (See 49.0208-Railroad and railway transportation)
- pre-engineering (See 14.0102-Pre-engineering)

14.0102 Pre-engineering

This instructional program class comprises any program that prepares individuals for admission or transfer to a baccalaureate-level program in any of the fields of engineering.

Illustrative example(s)

- pre-engineering
- pre-engineering transfer program

Exclusion(s)

- general engineering (See 14.0101-Engineering, general)

14.0103 Applied engineering

This instructional program class comprises any program that generally prepares individuals to apply mathematical and scientific principles inherent to engineering to the management and design of systems, execution of new

product designs, improvement of manufacturing processes, and the management and direction of the physical or technical functions of an organization. These programs include courses in basic engineering principles, project management, industrial processes, production and operations management, systems integration and control, quality control, and statistics.

Illustrative example(s)

- applied engineering

Exclusion(s)

- applied engineering technology (See 15.0001-Applied engineering technology/technician, general)

14.02 Aerospace, aeronautical and astronautical/space engineering

This subseries comprises instructional program classes 14.0201 to 14.0299.

14.0201 Aerospace, aeronautical and astronautical/space engineering, general

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of aircraft, missiles, space vehicles, and their systems; applied research on flight and orbital characteristics; and the development of systems and procedures for the launching, guidance, and control of air and space vehicles.

Illustrative example(s)

- aeronautical engineering
- aerospace engineering
- aerospace navigation
- air-breathing propulsion
- aircraft engineering
- aviation engineering
- missile systems engineering
- rocket propulsion
- space facilities engineering
- space systems engineering

Exclusion(s)

- aerospace engineering technology (See 15.0801-Aeronautical/aerospace engineering technology/technician)
- aircraft mechanic (See 47.0607-Airframe mechanics and aircraft maintenance technology/technician)
- astronautical engineering (See 14.0202-Astronautical engineering)
- aviation sciences (See 49.0101-Aeronautics/aviation/aerospace science and technology, general)
- space engineering (See 14.0202-Astronautical engineering)

14.0202 Astronautical engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development, and operational evaluation of aircraft and space vehicles. These programs include courses in control systems, fluid dynamics, electrical circuits systems, orbital mechanics, propulsion, remote sensing, satellites, spacecraft centers, spacecraft systems engineering, and space exploration.

Illustrative example(s)

- astronautical engineering
- space engineering

Exclusion(s)

- aeronautical engineering (See 14.0201-Aerospace, aeronautical and astronautical/space engineering, general)
- aerospace engineering (See 14.0201-Aerospace, aeronautical and astronautical/space engineering, general)

- aerospace engineering technology (See 15.0801-Aeronautical/aerospace engineering technology/technician)

14.0299 Aerospace, aeronautical, and astronautical/space engineering, other

This instructional program class comprises any program not listed above that relates to Aerospace, aeronautical, and astronautical/space engineering.

Illustrative example(s)

- other aerospace, aeronautical, and astronautical/space engineering

14.03 Agricultural engineering

This subseries comprises instructional program class 14.0301.

14.0301 Agricultural engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems, equipment and facilities used to produce, process and store agricultural products; to improve the productivity of agricultural methods; and to develop improved agricultural biological systems.

Illustrative example(s)

- agricultural engineering
- bio-resource engineering
- bioprocess engineering
- bioprocessing engineering
- food engineering
- food processing engineering
- soil engineering

Exclusion(s)

- agricultural mechanization (See 01.0201-Agricultural mechanization, general)
- bioengineering (See 14.4501-Biological/biosystems engineering)
- biological engineering (See 14.4501-Biological/biosystems engineering)
- biotechnology (See 26.1201-Biotechnology)
- food processing technology (See 01.1002-Food technology and processing)
- food science (See 01.1001-Food science)
- soil science (See 01.1201-Soil science and agronomy, general)

14.04 Architectural engineering

This subseries comprises instructional program class 14.0401.

14.0401 Architectural engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of materials, systems, and methods used to construct and equip buildings intended for human habitation or other purposes.

Illustrative example(s)

- architectural engineering

Exclusion(s)

- architectural drafting (See 15.1303-Architectural drafting and architectural CAD/CADD)
- architectural engineering technology (See 15.0101-Architectural engineering technology/technician)
- architectural science (See 04.0201-Architecture (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD))
- interior architecture (See 04.0501-Interior architecture)

- naval architecture (See 14.2201-Naval architecture and marine engineering)

14.05 Biomedical/medical engineering

This subseries comprises instructional program class 14.0501.

14.0501 Biomedical/medical engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of biomedical and health systems and products such as integrated biomedical systems, instrumentation, medical information systems, artificial organs and prostheses, and health management and care delivery systems.

Illustrative example(s)

- biomaterials engineering
- biomedical engineering
- cell and tissue engineering
- genetic engineering
- medical engineering
- neural engineering

Exclusion(s)

- biochemical engineering (See 14.4301-Biochemical engineering)
- bioengineering (See 14.4501-Biological/biosystems engineering)
- biomedical engineering technology (See 15.0401-Biomedical technology/technician)
- bioprocess engineering (See 14.0301-Agricultural engineering)
- medical biology (See 26.0102-Biomedical sciences, general)

14.06 Ceramic sciences and engineering

This subseries comprises instructional program class 14.0601.

14.0601 Ceramic sciences and engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of inorganic non-metallic materials, such as porcelains, cements, industrial ceramics, ceramic superconductors, abrasives, and related materials and systems.

Illustrative example(s)

- ceramic engineering
- ceramic sciences

Exclusion(s)

- ceramic arts (See 50.0711-Ceramic arts and ceramics)
- materials engineering (See 14.1801-Materials engineering)
- materials science and engineering (See 14.1801-Materials engineering)

14.07 Chemical engineering

This subseries comprises instructional program classes 14.0701 to 14.0799.

14.0701 Chemical engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems employing chemical processes, such as chemical reactors, kinetic systems, electrochemical systems, energy conservation processes, heat and mass transfer systems, and separation processes; and the applied analysis of chemical problems such as corrosion, particle abrasion, energy loss, pollution, and fluid mechanics.

Illustrative example(s)

- chemical engineering

Exclusion(s)

- biochemistry (See 26.0202-Biochemistry)
- chemical and biochemical engineering (See 14.4301-Biochemical engineering)
- chemical and biomolecular engineering (See 14.0702-Chemical and biomolecular engineering)
- chemical engineering technology (See 15.0615-Chemical engineering technology/technician)
- chemical process technology (See 41.0303-Chemical process technology)
- chemical technician (See 41.0301-Chemical technology/technician)
- chemistry (See 40.0501-Chemistry, general)
- engineering chemistry (See 14.4401-Engineering chemistry)
- materials chemistry (See 40.1002-Materials chemistry)
- petroleum engineering (See 14.2501-Petroleum engineering)
- physical chemistry (See 40.0506-Physical chemistry)
- plastics engineering (See 14.3201-Polymer/plastics engineering)

14.0702 Chemical and biomolecular engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems at the interface of chemical engineering and biology, with an emphasis at the molecular level, such as biopharmaceutical processes, protein engineering, metabolic engineering, gene therapy, biomaterials, cell and tissue engineering, and drug delivery. These programs include courses in chemical engineering, thermodynamics, organic chemistry, biochemistry, momentum and heat transfer, cellular and molecular biotechnology, process design, and chemical reactor design.

Illustrative example(s)

- chemical and biomolecular engineering

Exclusion(s)

- chemical engineering (See 14.0701-Chemical engineering)

14.0799 Chemical engineering, other

This instructional program class comprises any program not listed above that relates to Chemical engineering.

Illustrative example(s)

- other chemical engineering
- pharmaceutical engineering

Exclusion(s)

- pharmaceutical sciences (See 51.2010-Pharmaceutical sciences)

14.08 Civil engineering

This subseries comprises instructional program classes 14.0801 to 14.0899.

14.0801 Civil engineering, general

This instructional program class comprises any program that generally prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of structural, load-bearing, material moving, transportation, water resource, and material control systems; and environmental safety measures.

Illustrative example(s)

- civil engineering

Exclusion(s)

- civil engineering drafting (See 15.1304-Civil drafting and civil engineering CAD/CADD)
- civil engineering technology (See 15.0201-Civil engineering technology/technician)
- construction engineering (See 14.3301-Construction engineering)
- structural engineering (See 14.0803-Structural engineering)

14.0802 Geotechnical and geoenvironmental engineering

This instructional program class comprises any program that prepares individuals to apply geotechnical engineering methods, which deal with the analysis, design and construction of earth and earth supported structures, to the application of environmental problems, such as waste containment, waste disposal, construction of land fills, soil permeation, soil analysis, and soil improvement. These programs include courses in soil mechanics, soil dynamics, soil behaviour, waste management and containment systems, geosynthetics, geochemistry, earth structures, geoenvironmental engineering, geotechnical engineering, earthquake engineering, and foundation engineering.

Illustrative example(s)

- geoenvironmental engineering
- geotechnical and geoenvironmental engineering
- geotechnical engineering
- hydrological engineering

Exclusion(s)

- geological engineering (See 14.3901-Geological/geophysical engineering)
- geological science (See 40.0601-Geology/Earth science, general)
- hydraulic engineering (See 14.0805-Water resources engineering)
- land surveying (See 15.1102-Surveying technology/surveying)
- mining engineering technology (See 15.0901-Mining technology/technician)

14.0803 Structural engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of materials and systems used in building load-bearing structures for various purposes and in different environments, including buildings, roads, rail lines, bridges, dams, conduits, offshore platforms and work stations, and other structural shells; and the analysis of structural problems such as, failure, fabrication, safety, and natural hazards.

Illustrative example(s)

- bridge engineering
- civil structural engineering
- structural engineering
- wood engineering

Exclusion(s)

- architectural engineering technology (See 15.0101-Architectural engineering technology/technician)
- architectural science (See 04.0201-Architecture (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD))
- construction engineering (See 14.3301-Construction engineering)
- construction engineering technology (See 15.1001-Construction engineering technology/technician)
- forest engineering (See 14.3401-Forest engineering)

14.0804 Transportation and highway engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of total systems for the physical movement of people, materials and information, including general network design and planning, facilities planning, site evaluation, transportation management systems, needs projections and analysis, and analysis of costs.

Illustrative example(s)

- highway engineering
- traffic engineering
- transportation engineering

Exclusion(s)

- locomotive engineer (See 49.0208-Railroad and railway transportation)
- nautical science (See 49.0309-Nautical science/merchant marine officer)
- traffic control - flagging (See 49.0207-Flagging and traffic control)
- transportation clerk (See 52.0410-Traffic, customs and transportation clerk/technician)
- transportation management (See 52.0209-Transportation/mobility management)
- urban transportation planning (See 44.0403-Public transportation and infrastructure planning/studies)

14.0805 Water resources engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems for collecting, storing, moving, conserving and controlling surface water and groundwater, including water quality control, water cycle management, management of human and industrial water requirements, water delivery, and flood control.

Illustrative example(s)

- hydraulic engineering
- hydraulics engineer
- irrigation engineering
- water engineering
- water resources engineering

Exclusion(s)

- hydraulic engineering technician (See 15.1103-Hydraulics and fluid power technology/technician)
- hydrological engineering (See 14.0802-Geotechnical and geoenvironmental engineering)
- irrigation technology (See 01.0207-Irrigation management technology/technician)
- mechanical engineering (See 14.1901-Mechanical engineering)
- natural resource science (See 03.0101-Natural resources/conservation, general)
- ocean engineering (See 14.2401-Ocean engineering)
- water quality technology (See 15.0506-Water quality and wastewater treatment management and recycling technology/technician)
- water resources science (See 40.0605-Hydrology and water resources science)

14.0899 Civil engineering, other

This instructional program class comprises any program not listed above that relates to Civil engineering.

Illustrative example(s)

- cities engineering and management
- other civil engineering

Exclusion(s)

- construction engineering (See 14.3301-Construction engineering)

14.09 Computer engineering

This subseries comprises instructional program classes 14.0901 to 14.0999.

14.0901 Computer engineering, general

This instructional program class comprises any program that generally prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of computer hardware and

software systems and related equipment and facilities; and the analysis of specific problems of computer applications to various tasks.

Illustrative example(s)

- computer engineering
- computer systems engineering

Exclusion(s)

- computer engineering technology (See 15.1201-Computer engineering technology/technician, general)
- computer hardware engineering (See 14.0902-Computer hardware engineering)
- computer network engineering (See 14.0999-Computer engineering, other)
- computer science (See 11.0701-Computer science)
- software engineering (See 14.0903-Computer software engineering)
- systems engineering (See 14.2701-Systems engineering)

14.0902 Computer hardware engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development, and evaluation of computer hardware and related peripheral equipment. These programs include courses in computer circuit and chip design, circuitry, computer systems design, computer equipment design, computer layout planning, testing procedures, and related computer theory and software topics.

Illustrative example(s)

- computer hardware engineering

Exclusion(s)

- computer engineering (See 14.0901-Computer engineering, general)
- computer engineering technology (See 15.1201-Computer engineering technology/technician, general)
- computer hardware technology (See 15.1203-Computer hardware technology/technician)
- computer network engineering (See 14.0999-Computer engineering, other)
- computer science (See 11.0701-Computer science)
- systems engineering (See 14.2701-Systems engineering)

14.0903 Computer software engineering

This instructional program class comprises any program that prepares individuals to apply scientific and mathematical principles to the design, analysis, verification, validation, implementation, and maintenance of computer software systems using a variety of computer languages. These programs include courses in discrete mathematics, probability and statistics, computer science, managerial science, and applications to complex computer systems.

Illustrative example(s)

- computer software engineering
- software engineering
- software systems development

Exclusion(s)

- computer engineering (See 14.0901-Computer engineering, general)
- computer engineering technology (See 15.1201-Computer engineering technology/technician, general)
- computer network engineering (See 14.0999-Computer engineering, other)
- computer science (See 11.0701-Computer science)
- computer software technology (See 15.1204-Computer software technology/technician)
- software design (See 11.0201-Computer programming/programmer, general)
- systems engineering (See 14.2701-Systems engineering)

14.0999 Computer engineering, other

This instructional program class comprises any program not listed above that relates to Computer engineering.

Illustrative example(s)

- computer network engineering
- network engineering
- other computer engineering
- telematics and networking engineering

Exclusion(s)

- computer engineering (See 14.0901-Computer engineering, general)
- computer engineering technology (See 15.1201-Computer engineering technology/technician, general)
- computer hardware engineering (See 14.0902-Computer hardware engineering)
- computer science (See 11.0701-Computer science)
- network engineering technology (See 15.1299-Computer engineering technologies/technicians, other)
- software engineering (See 14.0903-Computer software engineering)
- systems engineering (See 14.2701-Systems engineering)
- telecommunication engineering (See 14.1004-Telecommunications engineering)

14.10 Electrical, electronics and communications engineering

This subseries comprises instructional program classes 14.1001 to 14.1099.

14.1001 Electrical and electronics engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of electrical and electronic systems and their components; and the analysis of problems such as superconductor, wave propagation, energy storage and retrieval, and reception and amplification.

Illustrative example(s)

- electrical and electronic engineering
- electrical and electronics engineering
- electrical engineering
- electrodynamic engineering
- electronic engineering
- electronics engineering
- total ship systems engineering

Exclusion(s)

- broadcast technology (See 10.0202-Radio and television broadcasting technology/technician)
- communications engineering (See 14.1004-Telecommunications engineering)
- communications technology (See 10.0105-Communications technology/technician)
- digital communication and multimedia (See 09.0702-Digital communication and media/multimedia)
- electrical power engineering (See 14.4802-Power plant engineering)
- electrical, electronic and communications engineering technology (See 15.0303-Electrical, electronic, and communications engineering technology/technician)
- electromechanical engineering (See 14.4101-Electromechanical engineering)
- electromechanical engineering technology (See 15.0403-Electromechanical/electromechanical engineering technology/technician)
- electronic and communications engineering (See 14.1099-Electrical, electronics and communications engineering, other)
- sound engineering (See 15.0307-Audio/sound engineering technology/technician)
- telecommunications technology (See 15.0305-Telecommunications technology/technician)

14.1003 Laser and optical engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of optical systems, lasers and related electronic devices. These programs include courses in wave theory and mechanics, electromagnetic applications, linear and non-linear optics, photon detecting, laser beam properties, directed energy, harmonic generation, optical systems, shielding and the design and implementation of related systems and equipment.

Illustrative example(s)

- electro-optic engineering
- laser and optical engineering
- laser engineering
- optical engineering

Exclusion(s)

- engineering physics (See 14.1201-Engineering physics/applied physics)

14.1004 Telecommunications engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development, and maintenance of telecommunications technology, networks, and systems. These programs include courses in telecommunications, computer networking, communications networks and systems, signals, circuits, fiber optics, and wireless systems and technology.

Illustrative example(s)

- communications engineering
- communications systems engineering
- telecommunication engineering
- telecommunications engineering

Exclusion(s)

- communication studies (See 09.0100-Communication, general)
- computer network specialist (See 11.1001-Network and system administration/administrator)
- computer systems telecommunications (university) (See 11.0901-Computer systems networking and telecommunications, general)
- electrical and electronics engineering (See 14.1001-Electrical and electronics engineering)
- emergency telecommunications (See 43.0399-Security and protective services, specialized programs, other)
- network engineering technology (See 15.1299-Computer engineering technologies/technicians, other)
- network management (See 11.1002-System, networking and LAN/WAN management/manager)
- telecommunications management (See 52.2101-Telecommunications management)
- telecommunications technology (See 15.0305-Telecommunications technology/technician)
- telematics and networking engineering (See 14.0999-Computer engineering, other)

14.1099 Electrical, electronics and communications engineering, other

This instructional program class comprises any program not listed above that relates to Electrical, electronics and communications engineering.

Illustrative example(s)

- electronic and communications engineering
- other electrical, electronics and communications engineering

14.11 Engineering mechanics

This subseries comprises instructional program class 14.1101.

14.1101 Engineering mechanics

This instructional program class comprises any program with a general focus on the application of the mathematical and scientific principles of classical mechanics to the analysis and evaluation of the behaviour of structures, forces and materials in engineering problems. These programs include courses in statics, kinetics, dynamics, kinematics, celestial mechanics, stress and failure, and electromagnetism.

Illustrative example(s)

- applied mechanics
- engineering mechanics

Exclusion(s)

- electromechanical engineering technology (See 15.0403-Electromechanical/electromechanical engineering technology/technician)
- mechanical drafting (See 15.1306-Mechanical drafting and mechanical drafting CAD/CADD)
- mechanical engineering (See 14.1901-Mechanical engineering)
- mechanical engineering technology (See 15.0805-Mechanical/mechanical engineering technology/technician)

14.12 Engineering physics/applied physics

This subseries comprises instructional program class 14.1201.

14.1201 Engineering physics/applied physics

This instructional program class comprises any program focusing on the use of physics principles in the analysis and evaluation of engineering problems and other scientific applications. These programs include courses in high- and low-temperature phenomena, computational physics, superconductivity, applied thermodynamics, molecular and particle physics applications, and space science research.

Illustrative example(s)

- applied physics
- directed energy physics
- engineering physics
- laser physics
- semiconductor physics

Exclusion(s)

- high-temperature physics (See 40.0805-Plasma and high-temperature physics)
- low-temperature physics (See 40.0808-Condensed matter and materials physics)
- molecular physics (See 40.0802-Atomic/molecular physics)
- nuclear engineering (See 14.2301-Nuclear engineering)
- optical engineering (See 14.1003-Laser and optical engineering)
- particle physics (See 40.0804-Elementary particle physics)
- physics (See 40.0801-Physics, general)
- semiconductor manufacturing technology (See 15.0616-Semiconductor manufacturing technology/technician)

14.13 Engineering science

This subseries comprises instructional program class 14.1301.

14.1301 Engineering science

This instructional program class comprises any program with a general focus on the general application of various combinations of mathematical and scientific principles to the analysis and evaluation of engineering problems, including applied research in human behaviour, statistics, biology, chemistry, the Earth and planetary sciences, atmospheric and meteorology, and computer applications.

Illustrative example(s)

- engineering science

Exclusion(s)

- atmospheric physics (See 40.0403-Atmospheric physics and dynamics)
- behavioural science (See 30.1701-Behavioural sciences)
- engineering technology (See 15.0000-Engineering technology/technician, general)

14.14 Environmental/environmental health engineering

This subseries comprises instructional program class 14.1401.

14.1401 Environmental/environmental health engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems for controlling contained living environments and for monitoring and controlling factors in the external natural environment, including pollution control, waste and hazardous material disposal, health and safety protection, conservation, life support, and requirements for protection of special materials and related work environments.

Illustrative example(s)

- environmental engineering
- environmental health engineering
- environmental management engineering

Exclusion(s)

- environmental biology (See 26.1305-Environmental biology)
- environmental engineering technology (See 15.0507-Environmental/environmental engineering technology/technician)
- environmental science (See 03.0104-Environmental science)
- environmental systems (See 03.0101-Natural resources/conservation, general)
- environmental toxicology (See 26.1006-Environmental toxicology)
- heating, ventilation, air conditioning and refrigeration technician (See 15.0501-Heating, ventilation, air conditioning and refrigeration engineering technology/technician)
- water quality technology (See 15.0506-Water quality and wastewater treatment management and recycling technology/technician)

14.18 Materials engineering

This subseries comprises instructional program class 14.1801.

14.1801 Materials engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and materials science principles to the design, development and operational evaluation of materials and related processes used in manufacturing in a wide variety of settings; the synthesis of new industrial materials, including marrying and bonding composites; analysis of materials requirements and specifications; and related problems of system design dependent on materials factors.

Illustrative example(s)

- chemical and materials engineering
- corrosion engineering
- materials engineering
- materials processing and manufacturing
- materials science and engineering
- materials science engineering
- metals and materials engineering

Exclusion(s)

- ceramic engineering (See 14.0601-Ceramic sciences and engineering)
- materials chemistry (See 40.1002-Materials chemistry)
- materials science (See 40.1001-Materials science)
- metallurgical engineering (See 14.2001-Metallurgical engineering)
- plastics engineering (See 14.3201-Polymer/plastics engineering)

14.19 Mechanical engineering

This subseries comprises instructional program class 14.1901.

14.1901 Mechanical engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of physical systems used in manufacturing and end-product systems used for specific uses, including machine tools, jigs and other manufacturing equipment; stationary power units and appliances; engines; self-propelled vehicles; housings and containers; hydraulic and electric systems for controlling movement; and the integration of computers and remote control with operating systems.

Illustrative example(s)

- mechanical engineering

Exclusion(s)

- engineering mechanics (See 14.1101-Engineering mechanics)
- hydraulic engineering (See 14.0805-Water resources engineering)
- mechanical drafting (See 15.1306-Mechanical drafting and mechanical drafting CAD/CADD)
- mechanical engineering technology (See 15.0805-Mechanical/mechanical engineering technology/technician)

14.20 Metallurgical engineering

This subseries comprises instructional program class 14.2001.

14.2001 Metallurgical engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and metallurgical principles to the design, development and operational evaluation of metal components of structural, load-bearing, power, transmission, and moving systems; and the analysis of engineering problems such as stress, creep, failure, alloy behaviour, environmental fluctuations, stability, electromagnetic and thermodynamic characteristics, optimal manufacturing processes, and related design considerations.

Illustrative example(s)

- metal engineering
- metallurgical engineering
- metallurgy engineering

Exclusion(s)

- materials engineering (See 14.1801-Materials engineering)
- metallurgical technology (See 15.0611-Metallurgical technology/technician)

14.21 Mining and mineral engineering

This subseries comprises instructional program class 14.2101.

14.2101 Mining and mineral engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of mineral extraction, processing and refining systems, including open pit and shaft mines, prospecting and site analysis equipment and instruments, environmental and safety systems, mine equipment and facilities, mineral processing and refining methods and systems, and logistics and communications systems.

Illustrative example(s)

- mineral engineering
- mining and mineral engineering
- mining and mineral process engineering
- mining engineering

Exclusion(s)

- geological engineering (See 14.3901-Geological/geophysical engineering)
- geological science (See 40.0601-Geology/Earth science, general)
- mining engineering technology (See 15.0901-Mining technology/technician)
- oil and gas drilling (See 46.0504-Well drilling/driller)
- petroleum engineering (See 14.2501-Petroleum engineering)
- petroleum engineering technology (See 15.0903-Petroleum technology/technician)

14.22 Naval architecture and marine engineering

This subseries comprises instructional program class 14.2201.

14.2201 Naval architecture and marine engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of self-propelled, stationary, or towed vessels operating on or under the water, including inland, coastal and ocean environments; and the analysis of related engineering problems such as corrosion, power transfer, pressure, hull efficiency, stress factors, safety and life support, environmental hazards and factors, and specific use requirements.

Illustrative example(s)

- marine engineering
- naval architecture
- naval engineering
- shipbuilding engineering

Exclusion(s)

- architectural science (See 04.0201-Architecture (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD))
- marine engineering technology (See 15.0806-Marine engineering technology/technician)
- marine sciences (See 30.3201-Marine sciences)
- nautical science (See 49.0309-Nautical science/merchant marine officer)
- naval architecture technology (See 15.9999-Engineering/engineering-related technologies/technicians, other)
- outboard mechanic (See 47.0616-Marine maintenance/fitter and ship repair technology/technician)

14.23 Nuclear engineering

This subseries comprises instructional program class 14.2301.

14.2301 Nuclear engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems for controlling and manipulating nuclear energy, including nuclear power plant design, fission reactor design, fusion reactor design,

reactor control and safety systems design, power transfer systems, containment vessels and structures design; and the analysis of related engineering problems such as fission and fusion processes, human and environmental factors, construction, and operational considerations.

Illustrative example(s)

- nuclear engineering
- nuclear fuels engineering
- nuclear power engineering
- nuclear power plant engineering
- nuclear reactor engineering
- thermal power engineering (nuclear)

Exclusion(s)

- nuclear engineering technology (See 15.1401-Nuclear engineering technology/technician)
- nuclear medicine technology (See 51.0905-Nuclear medical technology/technologist)
- nuclear physics (See 40.0806-Nuclear physics)
- nuclear technology (See 41.0205-Nuclear/nuclear power technology/technician)
- power plant engineering (See 14.4802-Power plant engineering)
- site assessment, decontamination and restoration (See 15.0508-Hazardous materials management and waste technology/technician)
- thermal power engineering (non-nuclear) (See 14.4802-Power plant engineering)

14.24 Ocean engineering

This subseries comprises instructional program class 14.2401.

14.2401 Ocean engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems to monitor, control, manipulate and operate within coastal or ocean environments, such as underwater platforms, flood control systems, dikes, hydroelectric power systems, tide and current control and warning systems, and communications equipment; the planning and design of total systems for working and functioning in water or underwater environments; and the analysis of related engineering problems such as the action of water properties and behaviour on physical systems and people, tidal forces, current movements, and wave motion.

Illustrative example(s)

- ocean engineering

Exclusion(s)

- biological oceanography (See 26.1302-Marine biology and biological oceanography)
- hydrological engineering (See 14.0802-Geotechnical and geoenvironmental engineering)
- hydrology (See 40.0605-Hydrology and water resources science)
- marine resources management (See 03.0205-Water, wetlands and marine resources management)
- physical oceanography (See 40.0607-Oceanography, chemical and physical)
- water resources engineering (See 14.0805-Water resources engineering)

14.25 Petroleum engineering

This subseries comprises instructional program class 14.2501.

14.2501 Petroleum engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems for locating, extracting, processing and refining crude petroleum and natural gas, including prospecting instruments and equipment, mining and drilling systems, processing and refining systems and facilities, storage facilities, transportation systems, and related environmental and safety systems.

Illustrative example(s)

- chemical and petroleum engineering
- oil and gas engineering
- petrochemical engineering
- petroleum engineering

Exclusion(s)

- chemical engineering (See 14.0701-Chemical engineering)
- mining and mineral engineering (See 14.2101-Mining and mineral engineering)
- oil and gas drilling (See 46.0504-Well drilling/driller)
- petroleum engineering technology (See 15.0903-Petroleum technology/technician)
- plastics engineering (See 14.3201-Polymer/plastics engineering)

14.27 Systems engineering

This subseries comprises instructional program class 14.2701.

14.2701 Systems engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of total systems solutions to a wide variety of engineering problems, including the integration of human, physical, energy, communications, management, and information requirements as needed, and the application of requisite analytical methods to specific situations.

Illustrative example(s)

- logistics engineering
- product development engineering
- systems design engineering
- systems engineering

Exclusion(s)

- computer networking technology (See 11.1001-Network and system administration/administrator)
- computer systems networking (university) (See 11.0901-Computer systems networking and telecommunications, general)
- control engineering (See 14.4201-Mechatronics, robotics, and automation engineering)
- energy systems technology (See 15.1701-Energy systems technology/technician, general)
- industrial systems engineering (See 14.3501-Industrial engineering)
- management information systems (See 52.1201-Management information systems, general)
- manufacturing engineering (See 14.3601-Manufacturing engineering)
- systems science (See 30.0601-Systems science and theory)

14.28 Textile sciences and engineering

This subseries comprises instructional program class 14.2801.

14.2801 Textile sciences and engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems to test and manufacture fibres and fibre products, both synthetic and natural; to develop new and improved fibres, textiles and their uses; and to the analysis of related engineering problems such as structural factors, molecular synthesis, chemical manufacturing, weaves, strength and stress, useful life, dyes, and applications to composite systems.

Illustrative example(s)

- textile engineering
- textile sciences and engineering

Exclusion(s)

- clothing and textiles (See 19.0901-Apparel and textiles, general)
- textile arts (See 50.0712-Fibre, textile and weaving arts)
- textile design (See 19.0902-Apparel and textile manufacture)
- textile science (See 19.0904-Textile science)

14.32 Polymer/plastics engineering

This subseries comprises instructional program class 14.3201.

14.3201 Polymer/plastics engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of synthesized macromolecular compounds and their application to specific engineering uses, including the development of industrial materials with tailored properties, the design of lightweight structural components, the use of liquid or solid polymers, and the analysis and control of polymerization processes.

Illustrative example(s)

- plastics engineering
- polymer engineering

Exclusion(s)

- chemical engineering (See 14.0701-Chemical engineering)
- materials engineering (See 14.1801-Materials engineering)
- materials science (See 40.1001-Materials science)
- polymer chemistry (See 40.0507-Polymer chemistry)
- polymer engineering technology (See 15.0607-Plastics and polymer engineering technology/technician)

14.33 Construction engineering

This subseries comprises instructional program class 14.3301.

14.3301 Construction engineering

This instructional program class comprises any program that prepares individuals to apply scientific, mathematical, and management principles to the planning, design, and building of facilities and structures. These programs include courses in civil engineering, structural principles, site analysis, computer-assisted design, geology, evaluation and testing, materials, contracting, project management, graphic communications, and applicable laws and regulations.

Illustrative example(s)

- construction engineering
- construction engineering and management

Exclusion(s)

- architectural and building technology (See 04.0902-Architectural and building sciences/technology (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD))
- architectural science (See 04.0201-Architecture (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD))
- civil engineering (See 14.0801-Civil engineering, general)
- construction engineering technology (See 15.1001-Construction engineering technology/technician)
- construction management (See 52.2001-Construction management, general)
- structural engineering (See 14.0803-Structural engineering)

14.34 Forest engineering

This subseries comprises instructional program class 14.3401.

14.3401 Forest engineering

This instructional program class comprises any program that prepares individuals to apply scientific, mathematical, and forestry principles to the design of mechanical devices and processes for efficient forest management, timber production and related forest logistics systems. These programs include courses in forest products processing, forest management, forest harvesting, timber structure design, production analysis, road and bridge construction, vehicle adaptation and design, and harvesting equipment design.

Illustrative example(s)

- forest engineering

Exclusion(s)

- forest products processing technology (See 03.0509-Wood science and wood products/pulp and paper technology/technician)
- forest science (See 03.0502-Forest sciences and biology)
- forest technology (See 03.0511-Forest technology/technician)
- forestry (See 03.0501-Forestry, general)
- wood engineering (See 14.0803-Structural engineering)

14.35 Industrial engineering

This subseries comprises instructional program class 14.3501.

14.3501 Industrial engineering

This instructional program class comprises any program that prepares individuals to apply scientific and mathematical principles to the design, improvement, and installation of integrated systems of people, material, information, and energy. These programs include courses in applied mathematics, physical sciences, the social sciences, engineering analysis, systems design, computer applications, and forecasting and evaluation methodology.

Illustrative example(s)

- ergonomics engineering
- human factors engineering
- industrial engineering
- industrial systems engineering

Exclusion(s)

- industrial design (See 50.0404-Industrial and product design)
- industrial management (See 15.1501-Engineering/industrial management)
- industrial mechanics (See 47.0303-Industrial mechanics and maintenance technology/technician)
- industrial technology (See 15.0612-Industrial technology/technician)
- manufacturing engineering (See 14.3601-Manufacturing engineering)
- manufacturing engineering technology (See 15.0613-Manufacturing engineering technology/technician)

14.36 Manufacturing engineering

This subseries comprises instructional program class 14.3601.

14.3601 Manufacturing engineering

This instructional program class comprises any program that prepares individuals to apply scientific and mathematical principles to the design, development, and implementation of manufacturing systems. These programs include courses in materials science and engineering, manufacturing processes, process engineering, assembly and product engineering, manufacturing systems design, and manufacturing competitiveness.

Illustrative example(s)

- automated manufacturing engineering

- manufacturing engineering

Exclusion(s)

- automation engineering (See 14.4201-Mechatronics, robotics, and automation engineering)
- electromechanical engineering (See 14.4101-Electromechanical engineering)
- industrial engineering (See 14.3501-Industrial engineering)
- industrial technology (See 15.0612-Industrial technology/technician)
- manufacturing engineering technology (See 15.0613-Manufacturing engineering technology/technician)
- systems engineering (See 14.2701-Systems engineering)

14.37 Operations research

This subseries comprises instructional program class 14.3701.

14.3701 Operations research

This instructional program class comprises any program that focuses on the development and application of complex mathematical or simulation models to solve problems involving operational systems, where the system concerned is subject to human intervention. These programs include courses in advanced multivariate analysis, application of judgment and statistical tests, optimization theory and techniques, resource allocation theory, mathematical modelling, control theory, statistical analysis, and applications to specific research problems.

Illustrative example(s)

- operations research

Exclusion(s)

- analysis and functional analysis (See 27.0103-Analysis and functional analysis)
- applied statistics (See 27.0601-Applied statistics, general)
- computational mathematics (See 27.0303-Computational mathematics)
- computer systems analyst (See 11.0501-Computer systems analysis/analyst)
- management science (See 52.1301-Management science)
- mathematical sciences (See 27.0301-Applied mathematics, general)
- mathematics (See 27.0101-Mathematics, general)
- research and development management (See 52.0210-Research and development management)

14.38 Surveying engineering

This subseries comprises instructional program class 14.3801.

14.3801 Surveying engineering

This instructional program class comprises any program that prepares individuals to apply scientific and mathematical principles to the determination of the location, elevations, and alignment of natural and man-made topographic features. These programs include courses in property line location, surveying, surface measurement, aerial and terrestrial photogrammetry, remote sensing, satellite imagery, global positioning systems, computer applications, and photographic data processing.

Illustrative example(s)

- geodetic engineering
- geomatics engineering
- survey engineering
- surveying engineering

Exclusion(s)

- geodetic sciences (See 40.0699-Geological and Earth sciences/geosciences, other)
- geographic information systems (GIS) (See 45.0702-Geographic information science and cartography)
- physical geography (See 45.0701-Geography)

- survey research and survey methodology (See 45.0103-Survey research/methodology)
- surveying (See 15.1102-Surveying technology/surveying)
- topology (See 27.0105-Topology and foundations)

14.39 Geological/geophysical engineering

This subseries comprises instructional program class 14.3901.

14.3901 Geological/geophysical engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and geological principles to the analysis and evaluation of engineering problems, including the geological evaluation of construction sites, the analysis of geological forces acting on structures and systems, the analysis of potential natural resource recovery sites, and applied research on geological phenomena.

Illustrative example(s)

- geological engineering
- geophysical engineering

Exclusion(s)

- geological science (See 40.0601-Geology/Earth science, general)
- geophysics (See 40.0603-Geophysics and seismology)
- geotechnical engineering (See 14.0802-Geotechnical and geoenvironmental engineering)
- mining engineering technician (See 15.0901-Mining technology/technician)

14.40 Paper science and engineering

This subseries comprises instructional program class 14.4001.

14.4001 Paper science and engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development, and manufacturing of pulp and paper products. These programs include courses in pulp and paper science, pulping and bleaching processes, paper structure and processes, pulp and paper manufacturing, coating technology, surface and colloid science, and fibers.

Illustrative example(s)

- paper engineering
- paper science
- paper science engineering
- pulp and paper engineering
- pulp and paper science
- wood and paper science

Exclusion(s)

- paper making (See 03.0509-Wood science and wood products/pulp and paper technology/technician)

14.41 Electromechanical engineering

This subseries comprises instructional program class 14.4101.

14.4101 Electromechanical engineering

This instructional program class comprises any program that prepares individuals to apply scientific and mathematical principles to the problems associated with combining electrical and mechanical components with special emphasis on manufacturing and automated processes. These programs include courses in applied mechanics, instrumentation and monitoring, machine design, automated control techniques, fluid and thermal dynamics, circuit analysis, and solid state electronics.

Illustrative example(s)

- electromechanical engineering
- electromechanical systems engineering

Exclusion(s)

- automated manufacturing engineering (See 14.3601-Manufacturing engineering)
- automation engineering technology (See 15.0406-Automation engineer technology/technician)
- mechatronics, robotics, and automation engineering (See 14.4201-Mechatronics, robotics, and automation engineering)
- mechatronics, robotics, and automation engineering technology (See 15.0407-Mechatronics, robotics, and automation engineering technology/technician)

14.42 Mechatronics, robotics, and automation engineering

This subseries comprises instructional program class 14.4201.

14.4201 Mechatronics, robotics, and automation engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of computer controlled electro-mechanical systems and products with embedded electronics, sensors, and actuators; and which includes, but is not limited to, automata, robots and automation systems. These programs include courses in mechanical engineering, electronic and electrical engineering, computer and software engineering, and control engineering.

Illustrative example(s)

- automation and control engineering
- automation and robotics engineering
- automation and telemechanics
- automation engineering
- control engineering
- mechatronics engineering
- mechatronics, robotics, and automation engineering
- robotics engineering

Exclusion(s)

- automated manufacturing engineering (See 14.3601-Manufacturing engineering)
- automation engineering technology (See 15.0406-Automation engineer technology/technician)
- electromechanical engineering (See 14.4101-Electromechanical engineering)
- mechatronics, robotics, and automation engineering technology (See 15.0407-Mechatronics, robotics, and automation engineering technology/technician)
- robotics programming (See 11.0102-Artificial intelligence)
- robotics technology (See 15.0405-Robotics technology/technician)
- systems engineering (See 14.2701-Systems engineering)

14.43 Biochemical engineering

This subseries comprises instructional program class 14.4301.

14.4301 Biochemical engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the study of biochemical processes in living organisms, properties of biological materials, and processes using biochemical agents such as cells, enzymes, and antibodies. These programs include courses in biology, chemistry, physics, biochemistry, thermodynamics, fluid dynamics, bioprocesses, and chemical engineering.

Illustrative example(s)

- biochemical engineering
- chemical and biochemical engineering

Exclusion(s)

- biochemistry (See 26.0202-Biochemistry)
- biological engineering (See 14.4501-Biological/biosystems engineering)
- chemical engineering (See 14.0701-Chemical engineering)
- chemical engineering technology (See 15.0615-Chemical engineering technology/technician)
- clinical biochemical genetics - residency (See 61.0901-Clinical biochemical genetics residency programs)
- engineering chemistry (See 14.4401-Engineering chemistry)
- medical biochemical genetics - residency (See 61.0904-Medical biochemical genetics residency programs)

14.44 Engineering chemistry

This subseries comprises instructional program class 14.4401.

14.4401 Engineering chemistry

This instructional program class comprises any program that focuses on the general application of chemical principles to the analysis and evaluation of engineering problems, such as development of electronic materials, solid-state science and technology, polymers, ceramics, and biomaterials. These programs include courses in physical chemistry, organic chemistry, materials science, chemical processes and systems, chemical reaction engineering, biochemical engineering, engineering mathematics, classical and modern physics, and computer science.

Illustrative example(s)

- applied chemistry
- engineering chemistry

Exclusion(s)

- chemical and biochemical engineering (See 14.4301-Biochemical engineering)
- chemical engineering (See 14.0701-Chemical engineering)
- chemistry (See 40.0501-Chemistry, general)
- engineering (See 14.0101-Engineering, general)

14.45 Biological/biosystems engineering

This subseries comprises instructional program class 14.4501.

14.4501 Biological/biosystems engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and management of biological systems; and includes applications to biology, biochemistry, ecology, and microbiology. These programs include courses in organic chemistry; microbiology; biochemistry; chemical, biological, biochemical, and process engineering; thermodynamics; process control; kinetics and reactor design; electric circuits; biosystem modelling; and bioelectronics and instrumentation.

Illustrative example(s)

- bioengineering
- biological and biosystems engineering
- biological engineering
- biological systems engineering
- biomass engineering
- biosystems engineering
- microbiological engineering

Exclusion(s)

- applied biology (See 26.0101-Biology/biological sciences, general)
- biological and physical sciences (See 30.0101-Biological and physical sciences)
- biological chemistry (See 26.0202-Biochemistry)
- biological technology (See 41.0101-Biology and biotechnology technologies/technicians)
- biomass energy conversion (See 03.0210-Bioenergy resource development and management)
- biomaterials engineering (See 14.0501-Biomedical/medical engineering)
- bioprocess engineering (See 14.0301-Agricultural engineering)
- chemical and biochemical engineering (See 14.4301-Biochemical engineering)
- engineering (See 14.0101-Engineering, general)

14.47 Electrical and computer engineering

This subseries comprises instructional program class 14.4701.

14.4701 Electrical and computer engineering

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design and development of computer systems. These programs include courses in computer architecture, cybersecurity, electronic circuits, electromagnetism, electronic materials and design, micro-fabrication methods and techniques, signal and image processing, and wireless communication networks.

Illustrative example(s)

- computer and electrical engineering
- computer and electronics engineering
- electrical and computer engineering
- electronic and computer engineering

Exclusion(s)

- computer engineering (See 14.0901-Computer engineering, general)
- electrical and computer engineering technology (See 15.9999-Engineering/engineering-related technologies/technicians, other)
- electrical and electronics engineering (See 14.1001-Electrical and electronics engineering)

14.48 Energy systems engineering

This subseries comprises instructional program classes 14.4801 to 14.4899.

14.4801 Energy systems engineering, general

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of energy generation, storage, conversion, and distribution systems. These programs include courses in conventional and alternative/renewable energy systems, electrical power systems, and electrical system design.

Illustrative example(s)

- alternative energy engineering
- energy engineering
- energy systems engineering
- renewable energy engineering
- sustainable energy engineering

Exclusion(s)

- energy systems engineering technology (See 15.1701-Energy systems technology/technician, general)
- energy systems installation and repair technology (See 47.0701-Energy systems installation and repair technology/technician, general)
- power engineering (See 14.4802-Power plant engineering)

14.4802 Power plant engineering

This instructional program class comprises any program that prepares individuals to plan electrical systems and modify existing electrical systems that generate and use large amounts of electricity required for distribution networks that are economical, safe, and functional. These programs include courses in alternative/renewable energy systems, calculus, circuit analysis, electrical power systems and industry practices, electrical system design, microprocessor architecture, motor control systems, programmable logic controllers, and project management; and power electronics operation, planning and protection.

Illustrative example(s)

- electrical power engineering
- electrical power plant engineering
- fossil fuels thermal power engineering
- hydroelectric power plant engineering
- power engineering
- power plant engineering
- thermal power engineering (non-nuclear)

Exclusion(s)

- electrical and electronics engineering (See 14.1001-Electrical and electronics engineering)
- energy engineering (See 14.4801-Energy systems engineering, general)
- nuclear power plant engineering (See 14.2301-Nuclear engineering)
- nuclear power technology (See 41.0205-Nuclear/nuclear power technology/technician)
- power plant engineering technology (See 15.1702-Power plant technology/technician)
- thermal power engineering (nuclear) (See 14.2301-Nuclear engineering)

14.4899 Energy systems engineering, other

This instructional program class comprises any program not listed above that relates to Energy systems engineering.

Illustrative example(s)

- other energy systems engineering

14.99 Engineering, other

This subseries comprises instructional program class 14.9999.

14.9999 Engineering, other

This instructional program class comprises any program not listed above that relates to Engineering.

Illustrative example(s)

- acoustic engineering
- automotive engineering
- design engineering
- fermentation engineering
- fire safety engineering
- HVAC engineering (university)
- instrumentation engineering
- mining and materials engineering
- other engineering
- welding engineering (university)

Exclusion(s)

- defence engineering (See 29.0501-Military technologies and applied sciences)
- engineering design (See 15.1502-Engineering design)

- engineering management (See 15.1501-Engineering/industrial management)
- fermentation technology (See 01.1005-Zymology/fermentation science)
- genetic engineering (See 14.0501-Biomedical/medical engineering)
- sound engineering (See 15.0307-Audio/sound engineering technology/technician)
- steam engineering (See 15.1702-Power plant technology/technician)

15. Engineering/engineering-related technologies/technicians

This series comprises instructional programs that prepare individuals to apply basic engineering principles and technical skills in support of engineering and related projects or to prepare for engineering-related fields.

15.00 General engineering technologies/technicians

This subseries comprises instructional program classes 15.0000 to 15.0001.

15.0000 Engineering technology/technician, general

This instructional program class comprises any program that generally prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in a wide variety of projects. These programs include courses in various engineering support functions for research, production, and operations, and applications to specific engineering specialties.

Illustrative example(s)

- engineering technician
- engineering technologist
- engineering technology

Exclusion(s)

- automation engineering technology (See 15.0406-Automation engineer technology/technician)
- chemical engineering technology (See 15.0615-Chemical engineering technology/technician)
- engineering (See 14.0101-Engineering, general)
- welding engineering technology (See 15.0614-Welding engineering technology/technician)

15.0001 Applied engineering technology/technician, general

This instructional program class comprises any program that generally prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in the management and design of systems, execution of new product designs, improvement of manufacturing processes, and the management and direction of the physical or technical functions of an organization. These programs include courses in basic engineering principles, project management, industrial processes, production and operations management, systems integration and control, quality control, and statistics.

Illustrative example(s)

- applied engineering technician
- applied engineering technology

Exclusion(s)

- applied engineering (See 14.0103-Applied engineering)

15.01 Architectural engineering technology/technician

This subseries comprises instructional program class 15.0101.

15.0101 Architectural engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of architects, engineers and planners engaged in designing and developing buildings, urban complexes, and related systems. These programs include courses in design testing procedures, building site analysis, model building and computer graphics, engineering drawing, structural systems

testing, analysis of prototype mechanical and interior systems, test equipment operation and maintenance, and report preparation.

Illustrative example(s)

- architectural engineering technician
- architectural engineering technologist
- architectural engineering technology

Exclusion(s)

- architectural and building technology (See 04.0902-Architectural and building sciences/technology (BArch, BA, BS, BSc, MArch, MA, MS, MSc, DArch, PhD))
- architectural engineering (See 14.0401-Architectural engineering)
- architectural technology (See 04.0901-Architectural technology/technician)
- building design and architecture CAD (See 15.1303-Architectural drafting and architectural CAD/CADD)
- environmental design (See 04.0401-Environmental design/architecture, general)
- housing and human environments (See 19.0601-Housing and human environments, general)
- landscape architecture (See 04.0601-Landscape architecture (BS, BSc, BSLA, BLA, MSLA, MLA, PhD))
- naval architecture technology (See 15.9999-Engineering/engineering-related technologies/technicians, other)

15.02 Civil engineering technology/technician

This subseries comprises instructional program class 15.0201.

15.0201 Civil engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of civil engineers engaged in designing and executing public works projects such as highways, dams, bridges, tunnels and other facilities. These programs include courses in site analysis, structural testing procedures, field and laboratory testing procedures, plan and specification preparation, test equipment operation and maintenance, and report preparation.

Illustrative example(s)

- civil and structural engineering technology
- civil engineering technician
- civil engineering technologist
- civil engineering technology
- structural engineering technology
- transportation engineering technology

Exclusion(s)

- civil engineering (See 14.0801-Civil engineering, general)
- geotechnical engineering (See 14.0802-Geotechnical and geoenvironmental engineering)
- structural engineering (See 14.0803-Structural engineering)
- transportation engineering (See 14.0804-Transportation and highway engineering)
- water resources engineering (See 14.0805-Water resources engineering)

15.03 Electrical/electronic engineering technologies/technicians

This subseries comprises instructional program classes 15.0303 to 15.0399.

15.0303 Electrical, electronic, and communications engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of electrical, electronics and communication engineers. These programs include courses in electrical circuitry, prototype development and testing; systems analysis and testing, systems maintenance, instrument calibration, and report preparation.

Illustrative example(s)

- electrical engineering technology
- electrical technician
- electrical technology
- electrical, electronic and communications engineering technology
- electronic engineering technology
- electronic systems technician
- electronic technician
- electronics technician

Exclusion(s)

- communication studies (See 09.0100-Communication, general)
- communications technology (See 10.0105-Communications technology/technician)
- control engineering technology (See 15.0404-Instrumentation technology/technician)
- electrical and power transmission installation (See 46.0301-Electrical and power transmission installation/installer, general)
- electrical repair (See 47.0101-General electrical/electronics equipment installation and repair technology/technician)
- electrician (See 46.0302-Electrician)
- electrodynamics technology (See 15.0403-Electromechanical/electromechanical engineering technology/technician)
- electronic and communications engineering (See 14.1099-Electrical, electronics and communications engineering, other)
- integrated circuit design (See 15.0306-Integrated circuit design technology/technician)
- telecommunications technology (See 15.0305-Telecommunications technology/technician)

15.0304 Laser and optical technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using lasers and other optical instruments for commercial or research purposes. These programs include courses in laser and optical principles, testing and maintenance procedures, safety precautions, specific applications to various tasks, and report preparation.

Illustrative example(s)

- laser and optical technician
- laser and optical technology
- laser technician
- laser technology
- optical technician
- optical technology
- photonics engineering technology
- photonics technology

Exclusion(s)

- dispensing optician (See 51.1801-Opticianry/ophthalmic dispensing optician)
- engineering physics (See 14.1201-Engineering physics/applied physics)
- optical engineering (See 14.1003-Laser and optical engineering)
- optical science (See 40.0807-Optics/optical sciences)
- orthoptics (See 51.1804-Orthoptics/orthoptist)

15.0305 Telecommunications technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills to help design and implement telecommunications systems. These programs

include courses in communications protocol, data networking, digital compression algorithms, digital signal processing, Internet access, object-oriented and relational databases, and programming languages.

Illustrative example(s)

- communications engineering technology
- network telecommunications engineering technology
- telecommunications engineering technician
- telecommunications engineering technology
- telecommunications technician
- telecommunications technology
- wireless communications technician
- wireless communications technology

Exclusion(s)

- communications technology (See 10.0105-Communications technology/technician)
- computer systems networking (university) (See 11.0901-Computer systems networking and telecommunications, general)
- digital communication and multimedia (See 09.0702-Digital communication and media/multimedia)
- electrical, electronic and communications engineering technology (See 15.0303-Electrical, electronic, and communications engineering technology/technician)
- telecommunication engineering (See 14.1004-Telecommunications engineering)
- telephone line installation (See 47.0103-Communications systems installation and repair technology/technician)

15.0306 Integrated circuit design technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills to design circuits in microelectronics. These programs include courses in circuit design, circuit layout, circuit analysis, computer-aided drafting, and semi-conductor technologies.

Illustrative example(s)

- integrated circuit design
- integrated circuit design and layout
- microcircuit mask design
- printed circuit board design
- printed circuit drafting

Exclusion(s)

- electrical, electronic and communications engineering technology (See 15.0303-Electrical, electronic, and communications engineering technology/technician)
- electronics drafting (See 15.1305-Electrical/electronics drafting and electrical/electronics CAD/CADD)

15.0307 Audio/sound engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the mixing, recording, and production of music. These programs include courses in acoustics, audio mixing, audio production, audio recording, computer composition of music, music theory, digital devices, and sound technology.

Illustrative example(s)

- audio engineering
- audio engineering and production
- audio engineering technician
- audio engineering technology
- music recording engineering
- recording engineering

- sound engineering
- sound engineering technician
- sound engineering technology

Exclusion(s)

- acoustic engineering (See 14.9999-Engineering, other)
- audio technician (See 10.0203-Recording arts technology/technician)
- recording arts technology (See 10.0203-Recording arts technology/technician)

15.0399 Electrical/electronic engineering technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Electrical/electronic engineering technologies/technicians.

Illustrative example(s)

- electrodynamics technology
- microelectronics technology
- other electrical/electronic engineering technologies/technicians

Exclusion(s)

- computer networking technology (See 11.1001-Network and system administration/administrator)
- computer systems networking (university) (See 11.0901-Computer systems networking and telecommunications, general)

15.04 Electromechanical technologies/technicians

This subseries comprises instructional program classes 15.0401 to 15.0499.

15.0401 Biomedical technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in developing biological or medical systems and products. These programs include courses in instrument calibration, design and installation testing, system safety and maintenance procedures, procurement and installation procedures, and report preparation.

Illustrative example(s)

- bioengineering technology
- biomedical electronics
- biomedical engineering technician
- biomedical engineering technology
- biomedical technician
- biomedical technology

Exclusion(s)

- bioengineering (See 14.4501-Biological/biosystems engineering)
- biomedical engineering (See 14.0501-Biomedical/medical engineering)
- biomedical laboratory technologist (See 51.1005-Clinical laboratory science/medical technology/technologist)
- biotechnology laboratory technician (See 41.0101-Biology and biotechnology technologies/technicians)
- forensic science (See 43.0406-Forensic science and technology)
- medical biology (See 26.0102-Biomedical sciences, general)

15.0403 Electromechanical/electromechanical engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in developing and testing automated,

servomechanical, and other electromechanical systems. These programs include courses in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures, and report preparation.

Illustrative example(s)

- electromechanical engineering technician
- electromechanical engineering technology
- electromechanical technician
- electromechanical technology

Exclusion(s)

- automated systems electromechanics (See 15.0406-Automation engineer technology/technician)
- electrical and electronics engineering (See 14.1001-Electrical and electronics engineering)
- electrical and power transmission installation (See 46.0301-Electrical and power transmission installation/installer, general)
- electrical, electronic and communications engineering technology (See 15.0303-Electrical, electronic, and communications engineering technology/technician)
- electromechanical engineering (See 14.4101-Electromechanical engineering)
- industrial electronics technician (See 47.0105-Industrial electronics technology/technician)
- mechanical engineering technology (See 15.0805-Mechanical/mechanical engineering technology/technician)
- mechatronics, robotics, and automation engineering technology (See 15.0407-Mechatronics, robotics, and automation engineering technology/technician)

15.0404 Instrumentation technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in developing control and measurement systems and procedures. These programs include courses in instrumentation design and maintenance, calibration, design and production testing and scheduling, automated equipment functions, applications to specific industrial tasks, and report preparation.

Illustrative example(s)

- control engineering technology
- electrical instrumentation
- industrial control technician
- industrial instrument mechanic
- industrial instrumentation technology
- instrumentation and control engineering technician
- instrumentation and control technician
- instrumentation engineering technology
- instrumentation technician
- instrumentation technology

Exclusion(s)

- electrical, electronic and communications engineering technology (See 15.0303-Electrical, electronic, and communications engineering technology/technician)
- industrial electronics technology (See 47.0105-Industrial electronics technology/technician)
- instrumentation engineering (See 14.9999-Engineering, other)
- quality control technology (See 15.0702-Quality control technology/technician)

15.0405 Robotics technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using robots. These programs include courses in the principles of robotics, design and operational testing, system

maintenance and repair procedures, robot computer systems and control language, specific system types and applications to specific industrial tasks, and report preparation.

Illustrative example(s)

- robotics engineering technician
- robotics engineering technology
- robotics technician
- robotics technology

Exclusion(s)

- industrial engineering (See 14.3501-Industrial engineering)
- industrial technology (See 15.0612-Industrial technology/technician)
- mechatronics, robotics, and automation engineering technology (See 15.0407-Mechatronics, robotics, and automation engineering technology/technician)
- robotics and automation technology (See 15.0407-Mechatronics, robotics, and automation engineering technology/technician)
- robotics engineering (See 14.4201-Mechatronics, robotics, and automation engineering)
- robotics programming (See 11.0102-Artificial intelligence)

15.0406 Automation engineer technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing, installing, calibrating, modifying and maintaining automated systems. These programs include courses in computer systems; electronics and instrumentation; programmable logic controllers (PLCs); electric, hydraulic and pneumatic control systems; actuator and sensor systems; process control; robotics; applications to specific industrial tasks; and report preparation.

Illustrative example(s)

- automated engineering technician
- automated engineering technology
- automated systems electromechanics
- automated systems engineering technology
- automation engineer technician
- automation engineer technology
- automation engineering technician
- automation engineering technology

Exclusion(s)

- automation engineering (See 14.4201-Mechatronics, robotics, and automation engineering)
- electromechanical engineering (See 14.4101-Electromechanical engineering)
- electromechanical engineering technology (See 15.0403-Electromechanical/electromechanical engineering technology/technician)
- engineering technology (See 15.0000-Engineering technology/technician, general)
- mechatronics, robotics, and automation engineering technology (See 15.0407-Mechatronics, robotics, and automation engineering technology/technician)
- robotics and automation technology (See 15.0407-Mechatronics, robotics, and automation engineering technology/technician)

15.0407 Mechatronics, robotics, and automation engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in the support of engineers to the design, development, and operational evaluation of autonomous, computer-controlled, electro-mechanical systems. These programs include courses in computer and software engineering, control engineering, electronic and electrical engineering, mechanical engineering, and robotics.

Illustrative example(s)

- automation and control engineering technology
- automation and telemechanics technology
- mechatronics engineering technician
- mechatronics engineering technology
- mechatronics technician
- mechatronics technology
- mechatronics, robotics, and automation engineering technician
- mechatronics, robotics, and automation engineering technology
- robotics and automation technology

Exclusion(s)

- automation engineering technology (See 15.0406-Automation engineer technology/technician)
- mechatronics, robotics, and automation engineering (See 14.4201-Mechatronics, robotics, and automation engineering)
- robotics programming (See 11.0102-Artificial intelligence)
- robotics technology (See 15.0405-Robotics technology/technician)

15.0499 Electromechanical technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Electromechanical technologies/technicians.

Illustrative example(s)

- other electromechanical technologies/technicians

Exclusion(s)

- electromechanical engineering (See 14.4101-Electromechanical engineering)
- robotics and automation technology (See 15.0407-Mechatronics, robotics, and automation engineering technology/technician)

15.05 Environmental control technologies/technicians

This subseries comprises instructional program classes 15.0501 to 15.0599.

15.0501 Heating, ventilation, air conditioning and refrigeration engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using air conditioning, refrigeration, ventilation, and heating systems. These programs include courses in principles of heating and cooling technology, design and operational testing, inspection and maintenance procedures, installation and operation procedures, and report preparation.

Illustrative example(s)

- air conditioning and heating technician
- air conditioning and refrigeration engineering technician
- air conditioning technology
- air conditioning, heating and refrigeration technician
- environmental systems engineering technology
- heating engineering technology
- heating, refrigeration and air conditioning technology
- heating, ventilation and air conditioning technician
- heating, ventilation, air conditioning and refrigeration technology
- refrigeration engineering technology

Exclusion(s)

- building service technician (See 46.0401-Building/property maintenance)
- electronics repair (See 47.0101-General electrical/electronics equipment installation and repair technology/technician)
- heating, ventilation and air conditioning engineering (university) (See 14.9999-Engineering, other)
- heating, ventilation, air conditioning and refrigeration mechanic (See 47.0201-Heating, air conditioning, ventilation and refrigeration maintenance technology/technician)

15.0506 Water quality and wastewater treatment management and recycling technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using water storage, waterpower, and wastewater treatment systems. These programs include courses in water storage, power and/or treatment systems and equipment; testing and inspection procedures; system maintenance procedures; and report preparation.

Illustrative example(s)

- wastewater treatment
- water and wastewater treatment
- water purification
- water quality technology
- water resources engineering technology
- water resources technology
- water systems maintenance
- water technician
- water treatment

Exclusion(s)

- environmental toxicology (See 26.1006-Environmental toxicology)
- hydrological engineering (See 14.0802-Geotechnical and geoenvironmental engineering)
- hydrology (See 40.0605-Hydrology and water resources science)
- marine environment technology (See 15.0507-Environmental/environmental engineering technology/technician)
- water resources engineering (See 14.0805-Water resources engineering)
- water wells drilling (See 46.0504-Well drilling/driller)

15.0507 Environmental/environmental engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using indoor and outdoor environmental pollution control systems. These programs include courses in environmental safety principles, testing and sampling procedures, laboratory techniques, instrumentation calibration, safety and protection procedures, equipment maintenance, and report preparation.

Illustrative example(s)

- environmental engineering technician
- environmental engineering technology
- environmental protection technician
- environmental protection technology
- environmental science technology
- environmental technician
- environmental technology
- marine environment technology

Exclusion(s)

- environmental biology (See 26.1305-Environmental biology)
- environmental engineering (See 14.1401-Environmental/environmental health engineering)
- environmental health (See 51.2202-Environmental health)
- environmental psychology (See 42.2808-Environmental psychology)
- environmental science (See 03.0104-Environmental science)
- environmental systems (See 03.0101-Natural resources/conservation, general)
- environmental toxicology (See 26.1006-Environmental toxicology)
- hazardous waste technology (See 15.0508-Hazardous materials management and waste technology/technician)
- marine resources management (See 03.0205-Water, wetlands and marine resources management)
- marine sciences (See 30.3201-Marine sciences)
- natural resource management (See 03.0201-Environmental/natural resources management and policy, general)

15.0508 Hazardous materials management and waste technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in identifying and disposing of hazardous materials. These programs include courses in environmental safety principles, biohazard identification, testing and sampling procedures, laboratory techniques, instrumentation calibration, hazardous waste disposal procedures and systems, safety and protection procedures, equipment maintenance, and report preparation.

Illustrative example(s)

- hazardous materials and waste treatment technician
- hazardous materials and waste treatment technologist
- hazardous materials management
- hazardous materials technician
- hazardous materials technology
- hazardous waste technician
- hazardous waste technology
- site assessment, decontamination and restoration

Exclusion(s)

- environmental engineering (See 14.1401-Environmental/environmental health engineering)
- hazardous materials information systems technology (See 15.0704-Hazardous materials information systems technology/technician)
- industrial safety technology (See 15.0703-Industrial safety technology/technician)
- occupational health and safety technology (See 15.0701-Occupational safety and health technology/technician)
- radiation protection/health physics technician (See 51.0916-Radiation protection/health physics technician)
- wastewater treatment (See 15.0506-Water quality and wastewater treatment management and recycling technology/technician)

15.0599 Environmental control technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Environmental control technologies/technicians.

Illustrative example(s)

- environmental performance of organizations
- other environmental control technologies/technicians

Exclusion(s)

- environmental health (See 51.2202-Environmental health)

- occupational health and safety nursing (See 51.3815-Occupational and environmental health nurse/nursing)

15.06 Industrial production technologies/technicians

This subseries comprises instructional program classes 15.0607 to 15.0699.

15.0607 Plastics and polymer engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using industrial polymers. These programs include courses in the principles of macromolecular chemistry, polymerization and plastic manufacturing processes and equipment, design and operational testing procedures, equipment maintenance and repair procedures, safety procedures, applications to specific products, and report preparation.

Illustrative example(s)

- plastics engineering technician
- plastics engineering technology
- plastics processing technology
- plastics technician
- plastics technology
- polymer engineering technician
- polymer engineering technology
- polymer processing technology

Exclusion(s)

- petroleum engineering (See 14.2501-Petroleum engineering)
- petroleum engineering technology (See 15.0903-Petroleum technology/technician)
- petrology (See 40.0606-Geochemistry and petrology)
- plastic arts (See 50.0702-Fine/studio arts, general)
- polymer chemistry (See 40.0507-Polymer chemistry)
- polymer engineering (See 14.3201-Polymer/plastics engineering)

15.0611 Metallurgical technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and metallurgists engaged in developing and using industrial metals and manufacturing processes. These programs include courses in principles of metallurgy, related manufacturing systems, laboratory techniques, testing and inspection procedures, instrument calibration, system and equipment maintenance and repair, applications to specific processes, and report preparation.

Illustrative example(s)

- metallurgical engineering technology
- metallurgical technician
- metallurgical technology
- metallurgy technician
- metallurgy technology

Exclusion(s)

- goldsmithing (See 50.0714-Metal arts)
- ironworker (See 48.0509-Ironworking/ironworker)
- manufacturing technology (See 15.0613-Manufacturing engineering technology/technician)
- metallurgical engineering (See 14.2001-Metallurgical engineering)
- mining engineering technology (See 15.0901-Mining technology/technician)
- sheet metal (See 48.0506-Sheet metal technology/sheetworking)

15.0612 Industrial technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of industrial engineers and managers. These programs include courses in optimization theory, human factors, organizational behaviour, industrial processes, industrial planning procedures, computer applications, and report and presentation preparation.

Illustrative example(s)

- industrial engineering technology
- industrial technician
- industrial technology

Exclusion(s)

- industrial education (See 13.1320-Trade and industrial teacher education)
- industrial electronics technician (See 47.0105-Industrial electronics technology/technician)
- industrial engineering (See 14.3501-Industrial engineering)
- industrial equipment technology (See 47.0303-Industrial mechanics and maintenance technology/technician)
- industrial management (See 15.1501-Engineering/industrial management)
- vocational technical education (See 13.1319-Technical teacher education)

15.0613 Manufacturing engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills to the identification and resolution of production problems in the manufacture of products. These programs include courses in machine operations, production line operations, engineering analysis, systems analysis, instrumentation, physical controls, automation, computer-aided manufacturing (CAM), manufacturing planning, quality control, and informational infrastructure.

Illustrative example(s)

- CAM
- computer-aided manufacturing technology
- manufacturing engineering technician
- manufacturing engineering technology
- manufacturing technician
- manufacturing technologist
- manufacturing technology
- mechanical manufacturing
- mechanical manufacturing technology

Exclusion(s)

- industrial engineering (See 14.3501-Industrial engineering)
- industrial technology (See 15.0612-Industrial technology/technician)
- manufacturing engineering (See 14.3601-Manufacturing engineering)
- semiconductor manufacturing technology (See 15.0616-Semiconductor manufacturing technology/technician)

15.0614 Welding engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills to the design and engineering of welding and joining systems and the implementation of welding processes. These programs include courses in materials science; computer-aided design; welding design; welding processes; welding metallurgy; automation and robotics; and codes, inspections, testing, and quality assurance.

Illustrative example(s)

- welding engineering technician
- welding engineering technologist
- welding engineering technology

Exclusion(s)

- engineering technology (See 15.0000-Engineering technology/technician, general)
- welding (See 48.0508-Welding technology/welder)
- welding engineering (university) (See 14.9999-Engineering, other)

15.0615 Chemical engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in the production and utilization of chemicals on an industrial scale. These programs include courses in organic chemistry, inorganic chemistry, analytical chemistry, biochemistry, thermodynamics, fluid mechanics, industrial processes, instrumental analysis, sampling and monitoring, and chemical and environmental safety.

Illustrative example(s)

- chemical engineering technician
- chemical engineering technology

Exclusion(s)

- chemical and biochemical engineering (See 14.4301-Biochemical engineering)
- chemical engineering (See 14.0701-Chemical engineering)
- chemical process technology (See 41.0303-Chemical process technology)
- chemistry (See 40.0501-Chemistry, general)
- engineering technology (See 15.0000-Engineering technology/technician, general)

15.0616 Semiconductor manufacturing technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills to operate and monitor equipment for the fabrication of semiconductors or microchips from silicon wafers, and to troubleshoot, maintain, and repair the specialized equipment used in this process. These programs include courses in AC and DC circuits, digital fundamentals, solid state devices, manufacturing processes, vacuum principles and technology, industrial electronics, quality assurance, and semiconductor manufacturing technology.

Illustrative example(s)

- semiconductor manufacturing technology

Exclusion(s)

- manufacturing technology (See 15.0613-Manufacturing engineering technology/technician)
- semiconductor physics (See 14.1201-Engineering physics/applied physics)

15.0617 Composite materials technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in the development, manufacture, and use of composite materials in aircraft technology, automotive technology, boats, medical prostheses, and wind turbines. These programs include courses in computer-aided design and drafting, composite materials and processes, composite maintenance, composite manufacturing, composite repair, material science, and mold manufacturing and production.

Illustrative example(s)

- composite materials engineering technician

- composite materials engineering technology
- composite materials processing technician
- composite materials processing technology
- composite materials technician
- composite materials technology

Exclusion(s)

- materials processing technology (See 15.0699-Industrial production technologies/technicians, other)

15.0699 Industrial production technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Industrial production technologies/technicians.

Illustrative example(s)

- corrosion engineering technician
- fibreglass technician
- materials engineering technology
- materials processing technician
- materials processing technology
- other industrial production technologies/technicians

Exclusion(s)

- composite materials technology (See 15.0617-Composite materials technology/technician)
- materials engineering (See 14.1801-Materials engineering)
- materials science (See 40.1001-Materials science)

15.07 Quality control and safety technologies/technicians

This subseries comprises instructional program classes 15.0701 to 15.0799.

15.0701 Occupational safety and health technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in maintaining job-related health and safety standards. These programs include courses in safety engineering principles, inspection and monitoring procedures, testing and sampling procedures, laboratory techniques, applications to specific work environments, and report preparation.

Illustrative example(s)

- occupational health and safety technician
- occupational health and safety technology
- occupational safety and health technician
- occupational safety and health technology
- workplace health and safety

Exclusion(s)

- industrial safety technology (See 15.0703-Industrial safety technology/technician)
- occupational health and industrial hygiene (See 51.2206-Occupational health and industrial hygiene)
- process safety technology (See 15.0705-Process safety technology/technician)

15.0702 Quality control technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in maintaining consistent manufacturing and construction standards. These programs include courses in quality control systems management principles, technical standards applicable to specific engineering and manufacturing projects,

testing procedures, inspection procedures, related instrumentation and equipment operation and maintenance, and report preparation.

Illustrative example(s)

- quality assurance
- quality assurance technician
- quality control technician
- quality control technologist
- quality control technology
- quality inspector training
- quality technician

Exclusion(s)

- materiel management (See 52.0203-Logistics, materials, and supply chain management)
- production management (See 52.0205-Operations management and supervision)
- water quality technology (See 15.0506-Water quality and wastewater treatment management and recycling technology/technician)

15.0703 Industrial safety technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills to assist engineers and other professionals in implementing and enforcing industrial safety standards to mitigate damage, reduce risks, and prevent accidents. These programs include courses in industrial processes, industrial hygiene, injury prevention, toxicology, ergonomics, risk analysis, system and process safety, safety performance measurement, human factors, human behaviour, and applicable laws and regulations.

Illustrative example(s)

- industrial safety technician
- industrial safety technology

Exclusion(s)

- industrial engineering (See 14.3501-Industrial engineering)
- occupational health and industrial hygiene (See 51.2206-Occupational health and industrial hygiene)
- occupational health and safety technology (See 15.0701-Occupational safety and health technology/technician)
- process safety technology (See 15.0705-Process safety technology/technician)
- security services (See 43.0109-Security and loss prevention services)

15.0704 Hazardous materials information systems technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills to assist engineers and other professionals in implementing, monitoring, and enforcing hazardous materials management and removal. These programs include courses in environmental science, environmental health, human behaviour, economics, management science, information systems and applications, and communication skills.

Illustrative example(s)

- hazardous materials information systems technician
- hazardous materials information systems technology
- WHMIS training
- workplace hazardous materials information systems training

Exclusion(s)

- environmental toxicology (See 26.1006-Environmental toxicology)

- hazardous waste technology (See 15.0508-Hazardous materials management and waste technology/technician)
- occupational health and industrial hygiene (See 51.2206-Occupational health and industrial hygiene)
- occupational health and safety technology (See 15.0701-Occupational safety and health technology/technician)
- process safety technology (See 15.0705-Process safety technology/technician)

15.0705 Process safety technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in developing methods to mitigate damage, reduce risks, and prevent accidents. These programs include courses in design for injury prevention, engineering for process safety, environmental psychology, function-based risk analysis, fundamentals of industrial engineering, operations research, probability and statistics, risk assessment and reduction, and safety engineering.

Illustrative example(s)

- process safety technician
- process safety technology

Exclusion(s)

- hazardous material information systems technology (See 15.0704-Hazardous materials information systems technology/technician)
- industrial safety technology (See 15.0703-Industrial safety technology/technician)
- occupational health and safety technology (See 15.0701-Occupational safety and health technology/technician)

15.0799 Quality control and safety technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Quality control and safety technologies/technicians.

Illustrative example(s)

- certified exposure device operator (CEDO)
- exposure device operator (EDO)
- non-destructive testing technology
- other quality control and safety technologies/technicians

Exclusion(s)

- nuclear technology (See 41.0205-Nuclear/nuclear power technology/technician)
- radiation protection/health physics technician (See 51.0916-Radiation protection/health physics technician)

15.08 Mechanical engineering related technologies/technicians

This subseries comprises instructional program classes 15.0801 to 15.0899.

15.0801 Aeronautical/aerospace engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing, manufacturing and testing aircraft, spacecraft and their systems. These programs include courses in aircraft/spacecraft systems technology, design and development testing, prototype and operational testing, inspection and maintenance procedures, instrument calibration, test equipment operation and maintenance, and report preparation.

Illustrative example(s)

- aeronautical engineering technology
- aeronautical manufacturing

- aeronautical manufacturing technology
- aeronautical technician
- aeronautical technology
- aerospace engineering technology
- aerospace manufacturing
- aerospace technician
- aerospace technology

Exclusion(s)

- aeronautical engineering (See 14.0201-Aerospace, aeronautical and astronautical/space engineering, general)
- aircraft engine mechanic (See 47.0608-Aircraft powerplant technology/technician)
- aircraft mechanic (See 47.0607-Airframe mechanics and aircraft maintenance technology/technician)
- aviation sciences (See 49.0101-Aeronautics/aviation/aerospace science and technology, general)
- avionics technician (See 47.0609-Avionics maintenance technology/technician)

15.0803 Automotive engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing, manufacturing and testing self-propelled ground vehicles and their systems. These programs include courses in vehicular systems technology, design and development testing, prototype and operational testing, inspection and maintenance procedures, instrument calibration, test equipment operation and maintenance, and report preparation.

Illustrative example(s)

- automotive engineering technician
- automotive engineering technology
- automotive manufacturing technology
- automotive product design technology

Exclusion(s)

- automotive electronics (See 47.0604-Automobile/automotive mechanics technology/technician)
- automotive engineering (See 14.9999-Engineering, other)
- diesel mechanic (See 47.0605-Diesel mechanics technology/technician)
- fuel and lube technician (See 47.0699-Vehicle maintenance and repair technologies/technicians, other)
- mechanical design drafting (See 15.1306-Mechanical drafting and mechanical drafting CAD/CADD)
- mechanical engineering technology (See 15.0805-Mechanical/mechanical engineering technology/technician)

15.0805 Mechanical/mechanical engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in the design and development phases of a wide variety of projects involving mechanical systems. These programs include courses in principles of mechanics, applications to specific engineering systems, design testing procedures, prototype and operational testing and inspection procedures, manufacturing system-testing procedures, test equipment operation and maintenance, and report preparation.

Illustrative example(s)

- mechanical design (college)
- mechanical engineering technician
- mechanical engineering technology
- mechanical technician
- mechanical technology

Exclusion(s)

- agricultural mechanics (See 01.0205-Agricultural mechanics and equipment/machine technology/technician)
- electromechanical technology (See 15.0403-Electromechanical/electromechanical engineering technology/technician)
- engineering mechanics (See 14.1101-Engineering mechanics)
- general mechanic (See 47.0000-Mechanics and repairers, general)
- industrial mechanics (See 47.0303-Industrial mechanics and maintenance technology/technician)
- instrumentation engineering (See 14.9999-Engineering, other)
- mechanical drafting (See 15.1306-Mechanical drafting and mechanical drafting CAD/CADD)
- mechanical engineering (See 14.1901-Mechanical engineering)
- mechatronics engineering technology (See 15.0407-Mechatronics, robotics, and automation engineering technology/technician)

15.0806 Marine engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in shipboard mechanical and electrical engineering and the maintenance and operation of marine engines, including gas, diesel, and steam engines. These programs include courses in automation, diesel-powered systems, electrical circuits and systems, engine performance, hydraulics, manufacturing, motor-powered systems, refrigeration and air-conditioning, steam-powered systems, and welding.

Illustrative example(s)

- chief marine engineer
- first class marine engineer
- marine electrical engineering technology
- marine engineering technician
- marine engineering technologist
- marine engineering technology
- marine mechanical engineering technology
- marine systems engineering technology
- merchant marine engineer
- second class marine engineer

Exclusion(s)

- inboard and outboard motor mechanics (See 47.0616-Marine maintenance/fitter and ship repair technology/technician)
- marine diesel mechanic (See 47.0605-Diesel mechanics technology/technician)
- marine engineering (See 14.2201-Naval architecture and marine engineering)
- merchant marine (See 49.0309-Nautical science/merchant marine officer)

15.0807 Motorsports engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in the design, construction, and repair of vehicles used in racing and motorsports. These programs include courses in aerodynamics, design, vehicle dynamics, performance engines, fluid mechanics, computer-aided design (CAD), mechanical engineering, and welding.

Illustrative example(s)

- motorsports engineering technician
- motorsports engineering technology
- powersports engineering technician
- powersports engineering technology

Exclusion(s)

- high performance and custom engine technician (See 47.0617-High performance and custom engine technician/mechanic)

15.0899 Mechanical engineering related technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Mechanical engineering related technologies/technicians.

Illustrative example(s)

- other mechanical engineering related technologies/technicians

Exclusion(s)

- diesel mechanic (See 47.0605-Diesel mechanics technology/technician)
- industrial mechanics (See 47.0303-Industrial mechanics and maintenance technology/technician)
- marine engineering technology (See 15.0806-Marine engineering technology/technician)
- mechanical engineering technology (See 15.0805-Mechanical/mechanical engineering technology/technician)

15.09 Mining and petroleum technologies/technicians

This subseries comprises instructional program classes 15.0901 to 15.0999.

15.0901 Mining technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in the development and operation of mines and related mineral processing facilities. These programs include courses in principles of mineral extraction and related geology, mineral field mapping and site analysis, testing and sampling methods, instrument calibration, assay analysis, test equipment operation and maintenance, mine environment and safety monitoring procedures, mine inspection procedures, and report preparation.

Illustrative example(s)

- metal and mineral processing technology
- mining and mineral processing
- mining and mineral processing technician
- mining engineering technician
- mining engineering technology
- mining technician
- mining technology
- surface mining
- underground mining

Exclusion(s)

- blasting technician (See 46.0505-Blasting/blaster)
- geological engineering (See 14.3901-Geological/geophysical engineering)
- geology (See 40.0601-Geology/Earth science, general)
- mineralogy (See 40.0606-Geochemistry and petrology)
- mining and mineral engineering (See 14.2101-Mining and mineral engineering)
- surface mining equipment operator (See 49.0202-Construction/heavy equipment/earthmoving equipment operation)

15.0903 Petroleum technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in the development and operation of oil and natural gas extraction and processing facilities. These programs include courses in principles

of petroleum extraction and related geology, petroleum field mapping and site analysis, testing and sampling methods, instrument calibration, laboratory analysis, test equipment operation and maintenance, environment and safety monitoring procedures for oil/gas fields and facilities, facility inspection procedures, and report preparation.

Illustrative example(s)

- gas processing
- oil and gas field operations
- oil field safety
- oil field technology
- oil refining
- petroleum and natural gas
- petroleum engineering technology
- petroleum operations technician
- petroleum technician
- petroleum technology

Exclusion(s)

- gas and oil burner technician (See 47.0201-Heating, air conditioning, ventilation and refrigeration maintenance technology/technician)
- geology (See 40.0601-Geology/Earth science, general)
- mining engineering technology (See 15.0901-Mining technology/technician)
- oil and gas drilling (See 46.0504-Well drilling/driller)
- petroleum engineering (See 14.2501-Petroleum engineering)
- petrology (See 40.0606-Geochemistry and petrology)

15.0999 Mining and petroleum technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Mining and petroleum technologies/technicians.

Illustrative example(s)

- other mining and petroleum technologies/technicians
- prospecting

15.10 Construction engineering technology/technician

This subseries comprises instructional program class 15.1001.

15.1001 Construction engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers, engineering contractors and other professionals engaged in the construction of buildings and related structures. These programs include courses in basic structural engineering principles and construction techniques, building site inspection, site supervision, construction personnel supervision, plan and specification interpretation, supply logistics and procurement, applicable building codes, and report preparation.

Illustrative example(s)

- building construction engineering technology
- building engineering technology
- construction engineering technician
- construction engineering technology

Exclusion(s)

- architectural engineering technology (See 15.0101-Architectural engineering technology/technician)
- building inspection (See 46.0403-Building/home/construction inspection/inspector)
- construction drafting (See 15.1303-Architectural drafting and architectural CAD/CADD)

- construction engineering (See 14.3301-Construction engineering)
- construction management (See 52.2001-Construction management, general)
- construction supervision (See 46.0412-Building/construction site management/manager)
- residential construction technician (See 46.0415-Building construction technology/technician)
- structural engineering (See 14.0803-Structural engineering)

15.11 Engineering-related technologies/technicians

This subseries comprises instructional program classes 15.1102 to 15.1199.

15.1102 Surveying technology/surveying

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to the delineation, determination, planning and positioning of land tracts, land and water boundaries, land contours and features; and the preparation of related maps, charts and reports. These programs include courses in applied geodesy, computer graphics, photointerpretation, plane and geodetic surveying, mensuration, traversing, survey equipment operation and maintenance, instrument calibration, and basic cartography.

Illustrative example(s)

- construction surveying
- geodetic surveying
- hydrographic surveying
- land survey technician
- land surveyor
- survey technician
- survey technologist
- survey technology
- surveying
- surveyor

Exclusion(s)

- geodetic sciences (See 40.0699-Geological and Earth sciences/geosciences, other)
- marine geomatics (See 45.0702-Geographic information science and cartography)
- physical geography (See 45.0701-Geography)
- quantity surveying (See 52.2001-Quantity surveying)
- survey research and survey methodology (See 45.0103-Survey research and survey methodology)
- surveying engineering (See 14.3801-Surveying engineering)
- topology (See 27.0105-Topology and foundations)

15.1103 Hydraulics and fluid power technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using fluid power and transportation systems. These programs include courses in fluid mechanics and hydraulics principles, fluid power systems, pipeline and pumping systems, design and operational testing, inspection and maintenance procedures, related instrumentation, and report preparation.

Illustrative example(s)

- fluid power technician
- fluid power technology
- hydraulic engineering technician
- hydraulic engineering technology
- hydraulic technician
- hydraulic technology
- hydraulics and fluid power technician
- hydraulics and fluid power technology

- hydraulics technician

Exclusion(s)

- electromechanical engineering technology (See 15.0403-Electromechanical/electromechanical engineering technology/technician)
- hydraulic engineering (See 14.0805-Water resources engineering)
- hydraulic mechanics (See 47.0302-Heavy equipment maintenance technology/technician)
- industrial mechanics (See 47.0303-Industrial mechanics and maintenance technology/technician)
- manufacturing technology (See 15.0613-Manufacturing engineering technology/technician)
- mechanical engineering (See 14.1901-Mechanical engineering)
- mechanical engineering technology (See 15.0805-Mechanical/mechanical engineering technology/technician)

15.1199 Engineering-related technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Engineering-related technologies/technicians.

Illustrative example(s)

- other engineering-related technologies/technicians

15.12 Computer engineering technologies/technicians

This subseries comprises instructional program classes 15.1201 to 15.1299.

15.1201 Computer engineering technology/technician, general

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of computer engineers engaged in designing and developing computer systems and installations. These programs include courses in computer electronics and programming, prototype development and testing, systems installation and testing, solid state and microminiature circuitry, peripheral equipment, and report preparation.

Illustrative example(s)

- computer electronics
- computer electronics technician
- computer engineering technician
- computer engineering technology

Exclusion(s)

- computer engineering (See 14.0901-Computer engineering, general)
- computer hardware engineering (See 14.0902-Computer hardware engineering)
- computer hardware technology (See 15.1203-Computer hardware technology/technician)
- computer programming technology (See 11.0201-Computer programming/programmer, general)
- computer science technology (See 11.0701-Computer science)
- computer systems technology (See 15.1202-Computer/computer systems technology/technician)

15.1202 Computer/computer systems technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of professionals who use computer systems. These programs include courses in basic computer design and architecture, programming, problems of specific computer applications, component and system maintenance and inspection procedures, hardware and software problem diagnosis and repair, and report preparation.

Illustrative example(s)

- applied computer technology

- computer systems technician
- computer systems technology
- computer technician
- computer technology
- microcomputer technician

Exclusion(s)

- computer engineering (See 14.0901-Computer engineering, general)
- computer engineering technology (See 15.1201-Computer engineering technology/technician, general)
- computer hardware technology (See 15.1203-Computer hardware technology/technician)
- computer science technology (See 11.0701-Computer science)
- computer systems analyst (See 11.0501-Computer systems analysis/analyst)
- computer systems technician - networking (See 11.1001-Network and system administration/administrator)
- systems engineering (See 14.2701-Systems engineering)

15.1203 Computer hardware technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills to support engineers in designing computer hardware and peripheral systems. These programs include courses in computer systems design, computer architecture, computer electronics, processors, peripherals, testing equipment, and computer manufacturing processes.

Illustrative example(s)

- computer hardware technician
- computer hardware technology

Exclusion(s)

- computer engineering (See 14.0901-Computer engineering, general)
- computer hardware engineering (See 14.0902-Computer hardware engineering)
- computer science technology (See 11.0701-Computer science)
- computer systems analyst (See 11.0501-Computer systems analysis/analyst)
- computer systems technology (See 15.1202-Computer/computer systems technology/technician)
- manufacturing design CAD technology (See 15.1302-CAD/CADD drafting and/or design technology/technician)

15.1204 Computer software technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills to support engineers in developing, implementing, and evaluating computer software and program applications. These programs include courses in computer programming, programming languages, databases, user interfaces, networking and warehousing, encryption and security, software testing and evaluation, and customization.

Illustrative example(s)

- computer software technician
- computer software technology

Exclusion(s)

- computer science technology (See 11.0701-Computer science)
- computer systems security (See 11.1003-Computer and information systems security/auditing/information assurance)
- database management (See 11.0802-Data modelling/warehousing and database administration)
- information technology (See 11.0103-Information technology)
- software design (See 11.0201-Computer programming/programmer, general)
- software systems development (See 14.0903-Computer software engineering)

15.1299 Computer engineering technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Computer engineering technologies/technicians.

Illustrative example(s)

- computer network engineering technician
- computer network engineering technology
- network engineering technician
- network engineering technology
- other computer engineering technologies/technicians

Exclusion(s)

- computer network engineering (See 14.0999-Computer engineering, other)
- telecommunication engineering (See 14.1004-Telecommunications engineering)

15.13 Drafting/design engineering technologies/technicians

This subseries comprises instructional program classes 15.1301 to 15.1399.

15.1301 Drafting and design technology/technician, general

This instructional program class comprises any program that prepares individuals to generally apply technical skills to create working drawings and computer simulations for a variety of applications. These programs include courses in specification interpretation, dimensioning techniques, drafting calculations, material estimation, technical communications, computer applications, and interpersonal communications.

Illustrative example(s)

- drafting
- drafting and design technician
- drafting and design technology
- drafting technician
- drafting technology
- engineering drafting technology
- engineering graphics and design
- engineering graphics technology
- general drafting
- technical drawing

Exclusion(s)

- computer graphics (See 11.0803-Computer graphics)
- computer-aided design and drafting technology (See 15.1302-CAD/CADD drafting and/or design technology/technician)
- design arts (See 50.0401-Design and visual communications, general)
- design engineering (See 14.9999-Engineering, other)
- desktop publishing (See 10.0303-Prepress/desktop publishing and digital imaging design)
- drawing (See 50.0705-Drawing)
- engineering design and drafting technology (See 15.1399-Drafting/design engineering technologies/technicians, other)
- environmental design (See 04.0401-Environmental design/architecture, general)
- graphic design (See 50.0409-Graphic design)
- illustration (See 50.0410-Illustration)

15.1302 CAD/CADD drafting and/or design technology/technician

This instructional program class comprises any program that prepares individuals to apply technical skills and advanced computer software and hardware to the creation of graphic representations and simulations in

support of engineering projects. These programs include courses in engineering graphics, two-dimensional and three-dimensional engineering design, solids modelling, engineering animation, computer-aided drafting (CAD), computer-aided design (CADD), and auto-CAD techniques.

Illustrative example(s)

- autoCAD
- autoCAD drafting
- CAD drafting
- CAD technology
- computer-aided design
- computer-aided design and drafting technology
- computer-assisted drafting
- drafting CAD

Exclusion(s)

- computer graphics (See 11.0803-Computer graphics)
- design engineering (See 14.9999-Engineering, other)
- drafting and design technology (See 15.1301-Drafting and design technology/technician, general)
- drawing (See 50.0705-Drawing)
- graphic design (See 50.0409-Graphic design)
- illustration (See 50.0410-Illustration)
- industrial design (See 50.0404-Industrial and product design)

15.1303 Architectural drafting and architectural CAD/CADD

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to develop working drawings and electronic simulations for architectural and related construction projects. These programs include courses in basic construction and structural design, architectural rendering, architectural-aided drafting (CAD), layout and designs, architectural blueprint interpretation, building materials, and basic structural wiring diagramming.

Illustrative example(s)

- architectural CAD technology
- architectural drafting
- building design and architecture CAD
- building design CAD technology
- computer-aided architectural drafting
- residential drafting and design

Exclusion(s)

- architectural design (See 04.0202-Advanced architectural design (MArch, MA, MS, MSc, DArch, PhD))
- architectural engineering (See 14.0401-Architectural engineering)
- architectural engineering technology (See 15.0101-Architectural engineering technology/technician)
- architectural technology (See 04.0901-Architectural technology/technician)
- CAD technology (See 15.1302-CAD/CADD drafting and/or design technology/technician)
- design engineering (See 14.9999-Engineering, other)
- drafting and design technology (See 15.1301-Drafting and design technology/technician, general)
- drawing (See 50.0705-Drawing)
- structural CAD technology (See 15.1304-Civil drafting and civil engineering CAD/CADD)

15.1304 Civil drafting and civil engineering CAD/CADD

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to develop working drawings and electronic simulations in support of civil engineers, geological engineers, and related professionals. These programs include courses in basic civil engineering principles,

geological and seismographic mapping, machine drafting, computer-aided drafting (CAD), pipe drafting, survey interpretation, and blueprint reading.

Illustrative example(s)

- civil drafting
- civil engineering CAD
- civil engineering computer-assisted design and drafting
- civil engineering drafting
- steel structure drafting
- structural CAD technology
- structural drafting

Exclusion(s)

- architectural CAD technology (See 15.1303-Architectural drafting and architectural CAD/CADD)
- CAD drafting (See 15.1302-CAD/CADD drafting and/or design technology/technician)
- civil engineering (See 14.0801-Civil engineering, general)
- civil engineering technology (See 15.0201-Civil engineering technology/technician)
- drafting (See 15.1301-Drafting and design technology/technician, general)
- drawing (See 50.0705-Drawing)
- industrial design (See 50.0404-Industrial and product design)

15.1305 Electrical/electronics drafting and electrical/electronics CAD/CADD

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to develop working schematics and representations in support of electrical/electronic engineers, computer engineers, and related professionals. These programs include courses in basic electronics, electrical systems and computer layouts; electrode-mechanical drafting; manufacturing circuitry; computer-aided drafting (CAD); and electrical systems specification interpretation.

Illustrative example(s)

- electrical CAD
- electrical drafting
- electrical facility drafting technologist
- electronics drafting
- electronics CAD
- photovoltaic (solar) design assistant

Exclusion(s)

- computer engineering technology (See 15.1201-Computer engineering technology/technician, general)
- drafting (See 15.1301-Drafting and design technology/technician, general)
- drawing (See 50.0705-Drawing)
- electrical and electronics engineering (See 14.1001-Electrical and electronics engineering)
- electrical, electronic and communications engineering technology (See 15.0303-Electrical, electronic, and communications engineering technology/technician)
- electromechanical engineering technology (See 15.0403-Electromechanical/electromechanical engineering technology/technician)
- printed circuit drafting (See 15.0306-Integrated circuit design technology/technician)

15.1306 Mechanical drafting and mechanical drafting CAD/CADD

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to develop working drawings and electronic simulations in support of mechanical and industrial engineers, and related professionals. These programs include courses in manufacturing materials and processes, mechanical drafting, electrode-mechanical drafting, basic metallurgy, geometric dimensioning and tolerancing, blueprint reading and technical communication.

Illustrative example(s)

- computer-assisted mechanical drafting
- computerized mechanical design
- mechanical CAD
- mechanical drafting
- mechanical engineering computer-assisted design
- mechanical engineering drafting technician

Exclusion(s)

- automotive product design technology (See 15.0803-Automotive engineering technology/technician)
- CAD technology (See 15.1302-CAD/CADD drafting and/or design technology/technician)
- drafting (See 15.1301-Drafting and design technology/technician, general)
- drawing (See 50.0705-Drawing)
- engineering mechanics (See 14.1101-Engineering mechanics)
- mechanical engineering (See 14.1901-Mechanical engineering)
- mechanical engineering technology (See 15.0805-Mechanical/mechanical engineering technology/technician)

15.1307 3D modelling and design technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills in the use of three-dimensional (3D) computer technology to create technical illustrations and models used in manufacturing, design, production, and construction. These programs include courses in 3D computer-aided design (CAD), 3D printing, 3D model design and construction, and 3D scanning.

Illustrative example(s)

- 3D design, modeling, printing, and scanning
- 3D design, modelling, printing, and scanning
- 3D modeling and design technician
- 3D modeling and design technology
- 3D modelling and design technician
- 3D modelling and design technology
- 3D printing
- 3D scanning

Exclusion(s)

- 3D modelling for animation and games (See 50.0411-Game and interactive media design)

15.1399 Drafting/design engineering technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Drafting/design engineering technologies/technicians.

Illustrative example(s)

- 4D building information modelling
- architectural and civil drafting
- architectural and electrical drafting
- architectural and industrial drafting
- building information modelling
- building information modelling (BIM)
- engineering design and drafting technology
- other drafting/design engineering technologies/technicians

Exclusion(s)

- architectural technology (See 04.0901-Architectural technology/technician)

- computer graphics (See 11.0803-Computer graphics)
- design arts (See 50.0401-Design and visual communications, general)
- drafting and design technology (See 15.1301-Drafting and design technology/technician, general)
- drawing (See 50.0705-Drawing)
- engineering drafting technology (See 15.1301-Drafting and design technology/technician, general)
- graphic design (See 50.0409-Graphic design)
- illustration (See 50.0410-Illustration)
- industrial design (See 50.0404-Industrial and product design)

15.14 Nuclear engineering technology/technician

This subseries comprises instructional program class 15.1401.

15.1401 Nuclear engineering technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering, knowledge and technical skills in support of engineers and other professionals operating nuclear facilities and engaged in nuclear applications and safety procedures. These programs include courses in physics, nuclear science, nuclear systems, nuclear plant and systems design, radiological safety, radiological applications, and applicable laws and regulations.

Illustrative example(s)

- nuclear engineering technician
- nuclear engineering technology

Exclusion(s)

- nuclear engineering (See 14.2301-Nuclear engineering)
- nuclear medicine technology (See 51.0905-Nuclear medical technology/technologist)
- nuclear technology (See 41.0205-Nuclear/nuclear power technology/technician)

15.15 Engineering-related fields

This subseries comprises instructional program classes 15.1501 to 15.1599.

15.1501 Engineering/industrial management

This instructional program class comprises any program that focuses on the application of engineering principles to the planning and operational management of industrial and manufacturing operations, and prepares individuals to plan and manage such operations. These programs include courses in accounting, engineering economy, financial management, industrial and human resources management, industrial psychology, management information systems, mathematical modelling and optimization, quality control, operations research, safety and health issues, and environmental program management.

Illustrative example(s)

- engineering management

Exclusion(s)

- business administration (See 52.0201-Business administration and management, general)
- human resources management (See 52.1001-Human resources management/personnel administration, general)
- industrial technology (See 15.0612-Industrial technology/technician)
- operations management (See 52.0205-Operations management and supervision)
- science and technology management (See 52.0216-Science/technology management)

15.1502 Engineering design

This instructional program class comprises any program that prepares individuals to apply mathematical and scientific principles to engineering problems involving marrying or coordinating multiple dissimilar systems to

carry out single functions or achieve common purposes, organizing system components for maximum flexibility and utility, planning engineering projects involving multiple tasks and design solutions, planning design testing and evaluation procedures, resolving specification and requirement conflicts, and choosing among competing theoretical solutions.

Illustrative example(s)

- engineering design

Exclusion(s)

- design engineering (See 14.9999-Engineering, other)
- engineering (See 14.0101-Engineering, general)

15.1503 Packaging science

This instructional program class comprises any program that focuses on the application of scientific, technological, design, and business principles to the development of packages and packaging materials, including raw material production, conversion of raw materials into usable forms, design, distribution, and post-use recycling and reuse. These programs include courses in principles of packaging, materials sciences, distribution and transportation, engineering and technology, graphic design, packaging regulations, and business and marketing.

Illustrative example(s)

- packaging science

15.1599 Engineering-related fields, other

This instructional program class comprises any program not listed above that relates to Engineering-related fields.

Illustrative example(s)

- other engineering-related fields

15.16 Nanotechnology

This subseries comprises instructional program class 15.1601.

15.1601 Nanotechnology

This instructional program class comprises any program that prepares individuals to apply mathematical, scientific, and engineering principles and technical skills to manipulate matter at the atomic and molecular level (in the range of 1-100 nanometers) and to design, fabricate, and integrate nanoscale structures, devices, and systems. These programs include courses in materials science, thermodynamics, nanomaterials, nanoelectronics, and nano/micro device fabrication and testing.

Illustrative example(s)

- nanoengineering
- nanoengineering technology
- nanofabrication technology
- nanoscience technician
- nanoscience technology
- nanotechnology

15.17 Energy systems technologies/technicians

This subseries comprises instructional program classes 15.1701 to 15.1799.

15.1701 Energy systems technology/technician, general

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing energy-efficient systems or monitoring energy use. These programs include courses in principles of energy conservation,

instrumentation calibration, monitoring systems and test procedures, energy loss inspection procedures, energy conservation techniques, and report preparation.

Illustrative example(s)

- energy management and systems technician
- energy management and systems technology
- energy management technician
- energy management technology
- energy systems engineering technician
- energy systems engineering technology
- energy systems management technology
- energy systems technician
- energy systems technology

Exclusion(s)

- energy systems engineering (See 14.4801-Energy systems engineering, general)
- energy systems installation and repair technology (See 47.0701-Energy systems installation and repair technology/technician, general)
- environmental engineering (See 14.1401-Environmental/environmental health engineering)
- environmental engineering technology (See 15.0507-Environmental/environmental engineering technology/technician)
- environmental systems (See 03.0101-Natural resources/conservation, general)
- solar energy technology (See 15.1703-Solar energy technology/technician)
- stationary energy sources installer and operator (See 47.0701-Energy systems installation and repair technology/technician, general)
- stationary engineer (See 15.1702-Power plant technology/technician)
- systems engineering (See 14.2701-Systems engineering)

15.1702 Power plant technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in the operation and maintenance of electricity generating power plants. These programs include courses in basic electricity, electrical power, generator operations, industrial controls, power plant instrumentation, power plant theory, pollution control, reactor theory, thermodynamics, turbines, and water chemistry.

Illustrative example(s)

- hydroelectric power plant operator
- nuclear power plant operation
- power plant engineering technician
- power plant engineering technology
- power plant technician
- power plant technology
- power systems operator
- stationary engineer
- stationary power plant engineering
- steam power plant stationary engineer

Exclusion(s)

- boilermaking (See 48.0801-Boilermaking/boilermaker)
- energy systems technician (See 15.1701-Energy systems technology/technician, general)
- nuclear power technology (See 41.0205-Nuclear/nuclear power technology/technician)
- power plant engineering (See 14.4802-Power plant engineering)
- power system electrician (See 46.0302-Electrician)
- stationary energy sources installer and operator (See 47.0701-Energy systems installation and repair technology/technician, general)

15.1703 Solar energy technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing solar-powered energy systems. These programs include courses in solar energy principles, energy storage and transfer technologies, testing and inspection procedures, system maintenance procedures, and report preparation.

Illustrative example(s)

- photovoltaic engineering technician
- photovoltaic engineering technology
- solar energy engineering technician
- solar energy engineering technology
- solar energy technician
- solar energy technology

Exclusion(s)

- energy systems technician (See 15.1701-Energy systems technology/technician, general)
- environmental engineering (See 14.1401-Environmental/environmental health engineering)
- environmental engineering technology (See 15.0507-Environmental/environmental engineering technology/technician)
- environmental science (See 03.0104-Environmental science)
- solar energy system installation and repair technology (See 47.0703-Solar energy system installation and repair technology/technician)
- solar panel installation (See 47.0703-Solar energy system installation and repair technology/technician)

15.1704 Wind energy technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing wind-powered energy systems. These programs include courses in wind energy principles, energy storage and transfer technologies, testing and inspection procedures, system maintenance procedures, and report preparation.

Illustrative example(s)

- wind energy engineering technician
- wind energy engineering technology
- wind energy technician
- wind energy technology

Exclusion(s)

- energy systems technician (See 15.1701-Energy systems technology/technician, general)
- wind turbine installation and maintenance (See 47.0704-Wind energy system installation and repair technology/technician)
- wind turbine technician (See 47.0704-Wind energy system installation and repair technology/technician)

15.1705 Hydroelectric energy technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing hydroelectric energy systems. These programs include courses in hydroelectric energy principles, energy storage and transfer technologies, testing and inspection procedures, system maintenance procedures, and report preparation.

Illustrative example(s)

- hydroelectric energy engineering technician
- hydroelectric energy engineering technology
- hydroelectric energy technician
- hydroelectric energy technology

- hydroelectricity technician

Exclusion(s)

- energy systems technician (See 15.1701-Energy systems technology/technician, general)
- hydroelectric energy system installation and repair technology (See 47.0705-Hydroelectric energy system installation and repair technology/technician)
- hydroelectric power plant engineering (See 14.4802-Power plant engineering)
- hydroelectric power plant operator (See 15.1702-Power plant technology/technician)

15.1706 Geothermal energy technology/technician

This instructional program class comprises any program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing geothermal energy systems. These programs include courses in geothermal energy principles, energy storage and transfer technologies, testing and inspection procedures, system maintenance procedures, and report preparation.

Illustrative example(s)

- geothermal energy engineering technician
- geothermal energy engineering technology
- geothermal energy technician
- geothermal energy technology

Exclusion(s)

- energy systems technician (See 15.1701-Energy systems technology/technician, general)
- geothermal energy system installation and repair technology (See 47.0706-Geothermal energy system installation and repair technology/technician)

15.1799 Energy systems technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Energy systems technologies/technicians.

Illustrative example(s)

- alternative energy technician
- alternative energy technology
- other energy systems technicians
- other energy systems technologies
- renewable energy technician
- renewable energy technology
- sustainable energy technician
- sustainable energy technology

Exclusion(s)

- renewable energy engineering (See 14.4801-Energy systems engineering, general)
- renewable resources technology (See 03.0199-Natural resources conservation and research, other)

15.99 Engineering/engineering-related technologies/technicians, other

This subseries comprises instructional program class 15.9999.

15.9999 Engineering/engineering-related technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Engineering/engineering-related technologies/technicians.

Illustrative example(s)

- agricultural engineering technician

- agricultural engineering technology
- bio-resources engineering technician
- electrical and computer engineering technology
- fire protection engineering technician
- fire protection engineering technologist
- geological engineering technology
- naval architecture technology
- other engineering technologies and engineering-related fields
- product design engineering technology

Exclusion(s)

- arson prevention and investigation (See 43.0205-Fire/arson investigation and prevention)
- bioengineering technology (See 15.0401-Biomedical technology/technician)
- fire systems technology (See 43.0204-Fire systems technology)

16. Indigenous and foreign languages, literatures, and linguistics

This series comprises instructional programs that focus on Indigenous and foreign languages and literatures, the humanistic and scientific study of linguistics, and the provision of professional interpretation and translation services.

16.01 Linguistic, comparative and related language studies and services

This subseries comprises instructional program classes 16.0101 to 16.0199.

16.0101 Indigenous and foreign languages and literatures, general

This instructional program class comprises any general program that focuses on one or more modern Indigenous or foreign language(s) that is not specific as to the name of the language(s) studied; that is otherwise undifferentiated; or that introduces students to language studies at the basic/elementary level.

Illustrative example(s)

- applied language studies
- foreign languages
- foreign languages and literature
- foreign literature
- language studies
- languages
- languages and literature
- modern languages

Exclusion(s)

- English literature (See 23.1401-English literature, general)
- French general literature (See 55.1401-French literature, general)
- intercultural studies (See 30.2301-Intercultural/multicultural and diversity studies)
- Native as a second language (See 16.1799-Second language learning, other)
- teaching foreign languages (See 13.1306-Indigenous and foreign language teacher education)

16.0102 Linguistics

This instructional program class comprises any program that focuses on language, language development, and relationships among languages and language groups from a humanistic and/or scientific perspective. These programs include courses in subjects such as psycholinguistics, behavioural linguistics, language acquisition, sociolinguistics, mathematical and computational linguistics, grammatical theory and theoretical linguistics, philosophical linguistics, philology and historical linguistics, comparative linguistics, phonetics, phonemics, dialectology, semantics, functional grammar and linguistics, language typology, lexicography, morphology and syntax, orthography, stylistics, structuralism, rhetoric, and applications to artificial intelligence.

Illustrative example(s)

- linguistics
- philology
- semiology
- semiotics

Exclusion(s)

- applied linguistics (See 16.0105-Applied linguistics)
- computational linguistics (See 30.4801-Linguistics and computer science)
- English language, literature and linguistics (See 23.0101-English language and literature, general)
- French language, literature and linguistics (See 55.0101-French language and literature, general)
- mathematical linguistics (See 30.4801-Linguistics and computer science)
- psycholinguistics (See 42.2701-Cognitive psychology and psycholinguistics)
- scientific computing (See 30.3001-Computational science)

16.0103 Language interpretation and translation

This instructional program class comprises any program that prepares individuals to be professional interpreters and/or translators of documents and data files, either from English or French into another language or languages or vice versa. These programs include courses of an intensive nature in one or more languages plus courses in subjects such as single and multiple-language interpretation, one- or two-way interpretation, simultaneous interpretation, general and literary translation, business translation, technical translation, and other specific applications of linguistic skills.

Illustrative example(s)

- health care interpreting
- interpreter translator
- language interpretation and translation
- languages and translation
- translation
- translation and interpretation

Exclusion(s)

- health (See 51.0000-Health services/allied health/health sciences, general)
- legal interpretation and translation (See 22.0304-Court interpreter)
- music performance (See 50.0903-Music performance, general)
- sign language interpretation (See 16.1603-Sign language interpretation and translation)

16.0104 Comparative literature

This instructional program class comprises any program that focuses on two or more literary traditions in the original languages or in translation. These programs include courses in comparative linguistics; applicable foreign languages; English/French language and literature; literary criticism; and applications to genre, period, national, and textual studies as well as literary forms such as poetry, prose, and drama.

Illustrative example(s)

- comparative Canadian literature
- comparative literature

Exclusion(s)

- English literature (See 23.1401-English literature, general)
- French general literature (See 55.1401-French literature, general)
- intercultural studies (See 30.2301-Intercultural/multicultural and diversity studies)

16.0105 Applied linguistics

This instructional program class comprises any program that focuses on language-related concerns in the everyday world, including language education, acquisition of first and additional languages, discourse analysis, language assessment, literacy, and language policy and planning. These programs include courses in linguistic theory; language teaching and learning; discourse analysis; language and cognition; and language, culture, and identity.

Illustrative example(s)

- applied linguistics

Exclusion(s)

- English language, literature and linguistics (See 23.0101-English language and literature, general)
- French language, literature and linguistics (See 55.0101-French language and literature, general)
- linguistics (See 16.0102-Linguistics)
- linguistics of signed languages (See 16.1602-Linguistics of sign language)
- psycholinguistics (See 42.2701-Cognitive psychology and psycholinguistics)

16.0199 Linguistic, comparative and related language studies and services, other

This instructional program class comprises any program not listed above that relates to Linguistic, Comparative and related language studies and services.

Illustrative example(s)

- other linguistic, comparative and related language studies and services
- terminology and translation
- translation assistant

Exclusion(s)

- translation and interpretation (See 16.0103-Language interpretation and translation)

16.02 African languages, literatures and linguistics

This subseries comprises instructional program class 16.0201.

16.0201 African languages, literatures and linguistics

This instructional program class comprises any program that focuses on one or more of the languages native to the African continent, including, but not limited to, Bantu languages; Nilo-Saharan languages; Niger-Congo languages; Khoisan languages; and the Chadic and Ethiopic languages of the Hamito-Semitic language family. These programs include courses in philology, dialects, and oral and written literatures.

Illustrative example(s)

- African languages
- African languages and literature
- African linguistics
- African literature

Exclusion(s)

- African studies (See 05.0101-African studies)

16.03 East Asian languages, literatures and linguistics

This subseries comprises instructional program classes 16.0300 to 16.0399.

16.0300 East Asian languages, literatures and linguistics, general

This instructional program class comprises any general program that focuses on one or more of the languages of East Asia, including, but not limited to, the Sino-Tibetan, Japanese, and Korean languages. These programs include courses in philology, linguistics, dialects and pidgins, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- East Asian languages
- East Asian languages and literature
- East Asian linguistics
- East Asian literature

Exclusion(s)

- East Asian studies (See 05.0104-East Asian studies)
- oriental languages (See 16.9999-Indigenous and foreign languages, literatures and linguistics, other)

16.0301 Chinese language and literature

This instructional program class comprises any program that focuses on the languages of China and associated dialects and literature. These programs include courses in philology, linguistics, dialects and pidgins, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Chinese
- Chinese language
- Chinese language and literature
- Chinese literature
- Mandarin

Exclusion(s)

- Chinese studies (See 05.0123-Chinese studies)

16.0302 Japanese language and literature

This instructional program class comprises any program that focuses on the Japanese language. These programs include courses in philology; ancient, medieval, and modern Japanese; dialects; and applications to business, science/technology, and other settings.

Illustrative example(s)

- Japanese
- Japanese language
- Japanese language and literature
- Japanese literature

Exclusion(s)

- Japanese studies (See 05.0127-Japanese studies)

16.0303 Korean language and literature

This instructional program class comprises any program that focuses on the Korean language. These programs include courses in philology; dialects; and applications to business, science/technology, and other settings.

Illustrative example(s)

- Korean
- Korean language
- Korean language and literature

- Korean literature

Exclusion(s)

- Korean studies (See 05.0128-Korean studies)

16.0304 Tibetan language and literature

This instructional program class comprises any program that focuses on the Tibetan language. These programs include courses in philology, secular and religious Tibetan, dialects, and applications to business, science/technology, Buddhist studies, and other settings.

Illustrative example(s)

- Tibetan
- Tibetan language
- Tibetan language and literature
- Tibetan literature

Exclusion(s)

- Tibetan Buddhism (See 38.0202-Buddhist studies)
- Tibetan studies (See 05.0131-Tibetan studies)

16.0399 East Asian languages, literatures and linguistics, other

This instructional program class comprises any program not listed above that relates to East Asian languages, literatures and linguistics.

Illustrative example(s)

- Ainu
- Formosan
- Manchu
- Miao
- other East Asian languages, literatures and linguistics
- Yuan

Exclusion(s)

- East Asian languages and literature (See 16.0300-East Asian languages, literatures and linguistics, general)

16.04 Slavic, Baltic and Albanian languages, literatures and linguistics

This subseries comprises instructional program classes 16.0400 to 16.0499.

16.0400 Slavic languages, literatures and linguistics, general

This instructional program class comprises any general program that focuses on the Slavic languages of Central and Eastern Europe. These programs include courses in philology, linguistics, dialects and pidgins, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Slavic languages
- Slavic languages and literature
- Slavic linguistics
- Slavic literature
- Slavic philology

Exclusion(s)

- Slavic and East European studies (See 05.0199-Area studies, other)
- Slavic studies (See 05.0118-Slavic studies)

16.0401 Baltic languages, literatures and linguistics

This instructional program class comprises any program that focuses on the languages of the Baltic peoples, including, but not limited to, the modern languages of Latvian and Lithuanian, and extinct languages such as Old Prussian and Curonian. These programs include courses in philology, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Baltic languages
- Baltic languages and literature
- Baltic linguistics
- Baltic literature
- Latvian
- Lithuanian

Exclusion(s)

- Baltic studies (See 05.0117-Baltic studies)

16.0402 Russian language and literature

This instructional program class comprises any program that focuses on the Russian language. These programs include courses in philology, dialects, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Russian
- Russian language
- Russian language and literature
- Russian literature
- Russian philology

Exclusion(s)

- European and Russian studies (See 05.0199-Area studies, other)
- Russian studies (See 05.0110-Russian studies)
- Soviet and East European studies (See 05.0105-Russian, Central European, East European and Eurasian studies)

16.0404 Albanian language and literature

This instructional program class comprises any program that focuses on the Albanian language. These programs include courses in Albanian/Illyrian philology, Ghegg and Tosk dialects, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Albanian
- Albanian language
- Albanian language and literature
- Albanian literature

Exclusion(s)

- Balkan studies (See 05.0116-Balkan studies)

16.0405 Bulgarian language and literature

This instructional program class comprises any program that focuses on the Bulgarian language. These programs include courses in philology, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Bulgarian
- Bulgarian language
- Bulgarian language and literature
- Bulgarian literature

Exclusion(s)

- Balkan studies (See 05.0116-Balkan studies)
- Slavic studies (See 05.0118-Slavic studies)

16.0406 Czech language and literature

This instructional program class comprises any program that focuses on the Czech language. These programs include courses in philology, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Czech
- Czech language
- Czech language and literature
- Czech literature

Exclusion(s)

- Slavic and East European studies (See 05.0199-Area studies, other)
- Slavic languages and literature (See 16.0400-Slavic languages, literatures and linguistics, general)
- Slavic studies (See 05.0118-Slavic studies)

16.0407 Polish language and literature

This instructional program class comprises any program that focuses on the Polish language. These programs include courses in philology, dialects, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Polish
- Polish language
- Polish language and literature
- Polish literature
- Polish philology

Exclusion(s)

- Polish studies (See 05.0129-Polish studies)
- Slavic languages and literature (See 16.0400-Slavic languages, literatures and linguistics, general)

16.0408 Bosnian, Serbian, and Croatian languages and literatures

This instructional program class comprises any program that focuses on the Bosnian, Serbian and/or Croatian languages. These programs include courses in philology, dialects, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Bosnian
- Bosnian language and literature
- Bosnian literature
- Croatian
- Croatian language and literature
- Croatian literature

- Serbian
- Serbian language and literature
- Serbian literature
- Serbo-Croatian

Exclusion(s)

- Balkan studies (See 05.0116-Balkan studies)
- Slavic languages and literature (See 16.0400-Slavic languages, literatures and linguistics, general)
- Slavic studies (See 05.0118-Slavic studies)

16.0409 Slovak language and literature

This instructional program class comprises any program that focuses on the Slovak language. These programs include courses in philology, dialects, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Slovak
- Slovak language
- Slovak language and literature
- Slovak literature

Exclusion(s)

- Slavic languages and literature (See 16.0400-Slavic languages, literatures and linguistics, general)
- Slavic studies (See 05.0118-Slavic studies)

16.0410 Ukrainian language and literature

This instructional program class comprises any program that focuses on the Ukrainian language. These programs include courses in philology, dialects, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Ukrainian
- Ukrainian language
- Ukrainian language and literature
- Ukrainian literature

Exclusion(s)

- Slavic languages and literature (See 16.0400-Slavic languages, literatures and linguistics, general)
- Ukrainian studies (See 05.0132-Ukraine studies)

16.0499 Slavic, Baltic and Albanian languages, literatures and linguistics, other

This instructional program class comprises any program not listed above that relates to Slavic, Baltic and Albanian languages, literatures and linguistics.

Illustrative example(s)

- Belarusian
- Kashubian
- Lusatian
- Macedonian
- Old Church Slavonic
- other Slavic, Baltic and Albanian languages, literatures and linguistics
- Slovenian
- Sorbian languages
- Wendish

Exclusion(s)

- Albanian language and literature (See 16.0404-Albanian language and literature)
- Baltic languages (See 16.0401-Baltic languages, literatures and linguistics)
- Slavic languages and literature (See 16.0400-Slavic languages, literatures and linguistics, general)

16.05 Germanic languages, literatures and linguistics

This subseries comprises instructional program classes 16.0500 to 16.0599.

16.0500 Germanic languages, literatures and linguistics, general

This instructional program class comprises any general program that focuses on the Germanic languages of Western, Central, and Northern Europe. These programs include courses in philology, linguistics, dialects and pidgins, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Germanic languages
- Germanic languages and literature
- Germanic linguistics
- Germanic literature
- Germanic philology

Exclusion(s)

- German language and literature (See 16.0501-German language and literature)
- German studies (See 05.0125-German studies)
- German teacher (See 13.1326-German language teacher education)

16.0501 German language and literature

This instructional program class comprises any program that focuses on the German language and related dialects. These programs include courses in philology; dialects; and applications to business, science/technology, and other settings.

Illustrative example(s)

- German
- German language
- German language and literature
- German linguistics
- German literature
- German philology

Exclusion(s)

- German studies (See 05.0125-German studies)
- German teacher (See 13.1326-German language teacher education)
- Germanic languages (See 16.0500-Germanic languages, literatures and linguistics, general)

16.0502 Scandinavian languages, literatures and linguistics

This instructional program class comprises any program that focuses on one or more of the languages, literatures, and linguistics of the peoples of Scandinavia and associated Northern European island groups. These programs include courses that may involve multiple languages and language families, not be specific as to the name of the language(s) studied, or be otherwise undifferentiated.

Illustrative example(s)

- Scandinavian
- Scandinavian languages
- Scandinavian languages and literature

- Scandinavian languages, literature and linguistics
- Scandinavian linguistics
- Scandinavian literature

Exclusion(s)

- Scandinavian studies (See 05.0111-Scandinavian studies)

16.0503 Danish language and literature

This instructional program class comprises any program that focuses on the Danish language and related dialects. These programs include courses in philology, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Danish
- Danish language
- Danish language and literature
- Danish literature

Exclusion(s)

- Scandinavian languages, literature and linguistics (See 16.0502-Scandinavian languages, literatures and linguistics)
- Scandinavian studies (See 05.0111-Scandinavian studies)

16.0504 Dutch/Flemish language and literature

This instructional program class comprises any program that focuses on the Dutch language and related dialects. These programs include courses in philology, literature, Dutch Creoles, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Dutch
- Dutch language
- Dutch language and literature
- Dutch literature
- Flemish
- Flemish language
- Flemish language and literature
- Flemish literature

Exclusion(s)

- European studies (See 05.0106-European studies/civilization)
- Germanic languages (See 16.0500-Germanic languages, literatures and linguistics, general)

16.0505 Norwegian language and literature

This instructional program class comprises any program that focuses on the Norwegian language and related dialects. These programs include courses in philology, dialects, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Norwegian
- Norwegian language
- Norwegian language and literature
- Norwegian literature

Exclusion(s)

- Scandinavian languages, literature and linguistics (See 16.0502-Scandinavian languages, literatures and linguistics)
- Scandinavian studies (See 05.0111-Scandinavian studies)

16.0506 Swedish language and literature

This instructional program class comprises any program that focuses on the Swedish language and related dialects. These programs include courses in philology, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Swedish
- Swedish language
- Swedish language and literature
- Swedish literature

Exclusion(s)

- Scandinavian languages, literature and linguistics (See 16.0502-Scandinavian languages, literatures and linguistics)
- Scandinavian studies (See 05.0111-Scandinavian studies)

16.0599 Germanic languages, literatures and linguistics, other

This instructional program class comprises any program not listed above that relates to Germanic languages, literatures and linguistics.

Illustrative example(s)

- Afrikaans
- Faeroese
- Frisian
- Gothic
- Icelandic
- Luxembourggetsch
- Old Norse
- Old Saxon
- Scots
- Yiddish

Exclusion(s)

- German language and literature (See 16.0501-German language and literature)
- German studies (See 05.0125-German studies)
- Germanic languages (See 16.0500-Germanic languages, literatures and linguistics, general)
- Scots Gaelic (See 16.1301-Celtic languages, literatures and linguistics)

16.06 Modern Greek language and literature

This subseries comprises instructional program class 16.0601.

16.0601 Modern Greek language and literature

This instructional program class comprises any program that focuses on the development and use of the Greek language in the period dating from the late 15th century to the present. These programs include courses in modern Greek literature, current Greek dialects, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Greek
- Greek language
- Greek language and literature
- Greek literature
- modern Greek
- modern Greek language
- modern Greek language and literature
- modern Greek literature

Exclusion(s)

- ancient Greek (See 16.1202-Ancient/classical Greek language and literature)
- classical languages (See 16.1200-Classics and classical languages, literatures and linguistics, general)

16.07 South Asian languages, literatures and linguistics

This subseries comprises instructional program classes 16.0700 to 16.0799.

16.0700 South Asian languages, literatures and linguistics, general

This instructional program class comprises any general program that focuses on one or more of the languages, literatures, and linguistics of the peoples speaking languages of the Indian subcontinent and associated borderlands and island groups. These programs include courses that may involve multiple languages and language families, not be specific as to the name of the language(s) studied, or be otherwise undifferentiated.

Illustrative example(s)

- South Asian languages
- South Asian languages and literature
- South Asian linguistics
- South Asian literature

Exclusion(s)

- South Asian studies (See 05.0112-South Asian studies)
- Southeast Asian languages (See 16.1400-Southeast Asian languages, literatures and linguistics, general)

16.0701 Hindi language and literature

This instructional program class comprises any program that focuses on the Hindi language, antecessors, and related dialects. These programs include courses in philology, modern Hindi, Hindustani, related dialects, and applications in business, science/technology, and other settings.

Illustrative example(s)

- Hindi
- Hindi language
- Hindi language and literature
- Hindi literature

Exclusion(s)

- Hinduism (See 38.0204-Hindu studies)
- South Asian studies (See 05.0112-South Asian studies)

16.0702 Sanskrit and classical Indian languages, literatures and linguistics

This instructional program class comprises any program that focuses on Sanskrit and related ancient and classical Indo-Aryan languages. These programs include courses in Vedic and classical Sanskrit, Pali and other Prakrits, and the historical development of Indo-Aryan languages and their relation to Indo-European languages such as Greek, Latin and the Baltic languages.

Illustrative example(s)

- Classical Indian languages
- Classical Indian languages and literature
- Classical Indian linguistics
- Classical Indian literature
- Sanskrit
- Sanskrit language
- Sanskrit language and literature
- Sanskrit linguistics
- Sanskrit literature

Exclusion(s)

- South Asian languages (See 16.0700-South Asian languages, literatures and linguistics, general)
- South Asian studies (See 05.0112-South Asian studies)

16.0704 Bengali language and literature

This instructional program class comprises any program that focuses on the Bengali language (Bangla) and related dialects. These programs include courses in philology, dialects, and applications in business, science/technology, and other settings.

Illustrative example(s)

- Bengali
- Bengali language
- Bengali language and literature
- Bengali literature

Exclusion(s)

- South Asian languages (See 16.0700-South Asian languages, literatures and linguistics, general)

16.0705 Punjabi language and literature

This instructional program class comprises any program that focuses on the Punjabi language (Punjabi) and related dialects. These programs include courses in philology, dialects, and applications in business, science/technology, and other settings.

Illustrative example(s)

- Punjabi
- Punjabi language
- Punjabi language and literature
- Punjabi literature

Exclusion(s)

- South Asian languages (See 16.0700-South Asian languages, literatures and linguistics, general)

16.0706 Tamil language and literature

This instructional program class comprises any program that focuses on the Tamil language and related dialects. These programs include courses in philology, classical and modern Tamil, dialects, and applications in business, science/technology, and other settings.

Illustrative example(s)

- Tamil
- Tamil language
- Tamil language and literature
- Tamil literature

Exclusion(s)

- South Asian languages (See 16.0700-South Asian languages, literatures and linguistics, general)

16.0707 Urdu language and literature

This instructional program class comprises any program that focuses on the Urdu language and related dialects. These programs include courses in philology, modern Urdu, dialects, and applications in business, science/technology, and other settings.

Illustrative example(s)

- Urdu
- Urdu language
- Urdu language and literature
- Urdu literature

Exclusion(s)

- South Asian languages (See 16.0700-South Asian languages, literatures and linguistics, general)

16.0799 South Asian languages, literatures and linguistics, other

This instructional program class comprises any program not listed above that relates to South Asian languages, literatures and linguistics.

Illustrative example(s)

- Assamese
- Gujarati
- Kannanda
- Marathi
- Nepalese
- Rajasthani
- Romany
- Sindhi
- Sinhalese
- Telugu

Exclusion(s)

- South Asian languages (See 16.0700-South Asian languages, literatures and linguistics, general)
- South Asian studies (See 05.0112-South Asian studies)

16.08 Iranian languages, literatures and linguistics

This subseries comprises instructional program class 16.0801.

16.0801 Iranian languages, literatures and linguistics

This instructional program class comprises any program that focuses on the languages used in ancient, medieval, and modern Iran and its border regions, including Persian; Avestan/Old Persian; and related modern and extinct languages. These programs include courses in applications of modern Persian and other languages in business, science/technology, and other settings.

Illustrative example(s)

- Iranian languages
- Iranian languages and literature
- Iranian linguistics
- Iranian literature
- Persian
- Persian language

- Persian language and literature
- Persian literature

Exclusion(s)

- Near and Middle Eastern studies (See 05.0108-Near and Middle Eastern studies)

16.09 Romance languages, literatures and linguistics

This subseries comprises instructional program classes 16.0900 to 16.0999.

16.0900 Romance languages, literatures and linguistics, general

This instructional program class comprises any general program that focuses on the Romance languages of Western, Central, and Southern Europe. These programs include courses in philology, linguistics, dialects and pidgins, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Romance language and literature
- Romance languages
- Romance languages, literature and linguistics
- Romance linguistics
- Romance literature

Exclusion(s)

- European studies (See 05.0106-European studies/civilization)
- Romanian language and literature (See 16.0906-Romanian language and literature)

16.0902 Italian language and literature

This instructional program class comprises any program that focuses on the Italian language and related dialects. These programs include courses in philology, dialects, and applications in business, science/technology, and other settings.

Illustrative example(s)

- Italian
- Italian language
- Italian language and literature
- Italian literature

Exclusion(s)

- Italian studies (See 05.0126-Italian studies)
- Romance languages, literature and linguistics (See 16.0900-Romance languages, literatures and linguistics, general)

16.0904 Portuguese language and literature

This instructional program class comprises any program that focuses on the Portuguese language and related dialects. These programs include courses in philology, Metropolitan Portuguese, Luso-Brazilian Portuguese, dialects, and applications in business, science/technology, and other settings.

Illustrative example(s)

- Portuguese
- Portuguese language
- Portuguese language and literature
- Portuguese literature

Exclusion(s)

- Latin American literature (See 16.0908-Hispanic and Latin American languages, literatures and linguistics, general)
- Romance languages, literature and linguistics (See 16.0900-Romance languages, literatures and linguistics, general)
- Spanish studies (See 05.0130-Spanish and Iberian studies)

16.0905 Spanish language and literature

This instructional program class comprises any program that focuses on the Spanish language and related dialects. These programs include courses in philology, modern Castilian, Latin American and regional Spanish dialects, and applications in business, science/technology, and other settings.

Illustrative example(s)

- Spanish
- Spanish language
- Spanish language and literature
- Spanish literature

Exclusion(s)

- Hispanic literature (See 16.0908-Hispanic and Latin American languages, literatures and linguistics, general)
- Romance languages, literature and linguistics (See 16.0900-Romance languages, literatures and linguistics, general)
- Spanish as a second language (See 16.1799-Second language learning, other)
- Spanish studies (See 05.0130-Spanish and Iberian studies)
- Spanish teacher (See 13.1330-Spanish language teacher education)

16.0906 Romanian language and literature

This instructional program class comprises any program that focuses on the Romanian language and related dialects. These programs include courses in philology, dialects, and applications in business, science/technology, and other settings.

Illustrative example(s)

- Romanian
- Romanian language
- Romanian language and literature
- Romanian literature

Exclusion(s)

- East European studies (See 05.0105-Russian, Central European, East European and Eurasian studies)
- Romance languages, literature and linguistics (See 16.0900-Romance languages, literatures and linguistics, general)

16.0907 Catalan language and literature

This instructional program class comprises any program that focuses on the Catalan language and related dialects. These programs include courses in philology, dialects, and applications in business, science/technology, and other settings.

Illustrative example(s)

- Catalan
- Catalan language
- Catalan language and literature
- Catalan literature

Exclusion(s)

- Romance languages, literature and linguistics (See 16.0900-Romance languages, literatures and linguistics, general)
- Spanish studies (See 05.0130-Spanish and Iberian studies)

16.0908 Hispanic and Latin American languages, literatures and linguistics, general

This instructional program class comprises any program that focuses on the languages and literatures of the Spanish- and Portuguese-speaking areas of the world, including the Iberian, Latin American, and Lusophone worlds. These programs include courses in Spanish and Portuguese language and linguistics; regional and Latin American dialects; and Spanish, Portuguese, Spanish American, Luso-Brazilian, and Chicano literature.

Illustrative example(s)

- Hispanic language and literature
- Hispanic languages
- Hispanic linguistics
- Hispanic literature
- Latin American languages
- Latin American languages and literature
- Latin American linguistics
- Latin American literature

Exclusion(s)

- Portuguese language and literature (See 16.0904-Portuguese language and literature)
- Spanish language and literature (See 16.0905-Spanish language and literature)

16.0999 Romance languages, literatures and linguistics, other

This instructional program class comprises any program not listed above that relates to Romance languages, literatures and linguistics.

Illustrative example(s)

- Friulian
- Galician
- langue d'oc
- Occitan
- other Romance languages, literatures and linguistics
- Provençal
- Rhaeto-Romansch
- Sardinian

Exclusion(s)

- Romance languages, literature and linguistics (See 16.0900-Romance languages, literatures and linguistics, general)
- Romanian language and literature (See 16.0906-Romanian language and literature)

16.10 Indigenous languages, literatures, and linguistics of the Americas

This subseries comprises instructional program class 16.1001.

16.1001 Indigenous languages, literatures, and linguistics of the Americas

This instructional program class comprises any program that focuses on the languages native to the Western Hemisphere. These programs include courses in philology; oral and written literatures; Inuit and Aleut languages; North American language families, including, but not limited to, Algonkian, Athabaskan, Siouan, Muskogean, Iroquoian, Kumeyaay, Yuman, Mayan, Zapotecan, and Uto-Aztecan; South American language families, including, but not limited to, Andean-Equatorial, Ge-Pano-Carib, and Macro-Chibchan, and other minor languages.

Illustrative example(s)

- Cree language studies
- Dakota language studies
- First Nations language
- Indigenous languages and literature
- Inuktitut
- Iroquoian languages
- Mi'kmaw language
- Mohawk language
- Ojibwe language
- Saulteaux language studies

Exclusion(s)

- Australian aboriginal languages (See 16.1401-Australian/Oceanic/Pacific languages, literatures and linguistics)
- Hawaiian language and literature (See 16.1409-Hawaiian language and literature)
- Indigenous language teacher education (See 13.1306-Indigenous and foreign language teacher education)
- Indigenous studies (See 05.0202-Indigenous peoples of the Americas studies)

16.11 Middle/Near Eastern and Semitic languages, literatures and linguistics

This subseries comprises instructional program classes 16.1100 to 16.1199.

16.1100 Middle/Near Eastern and Semitic languages, literatures and linguistics, general

This instructional program class comprises any general program that focuses on one or more of the Middle/Near Eastern and Semitic languages of the ancient and modern Middle/Near East, Western Asia, North Africa, and Europe. These programs include courses in philology, linguistics, dialects and pidgins, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Middle Eastern languages
- Middle Eastern linguistics
- Middle Eastern literature
- Near Eastern languages
- Near Eastern linguistics
- Near Eastern literature
- Semitic languages
- Semitic languages and literature
- Semitic linguistics
- Semitic literature

Exclusion(s)

- Arabic language, literature and linguistics (See 16.1101-Arabic language and literature)
- Hebrew language and literature (See 16.1102-Hebrew language and literature)
- Near and Middle Eastern studies (See 05.0108-Near and Middle Eastern studies)
- Yiddish (See 16.0599-Germanic languages, literatures and linguistics, other)

16.1101 Arabic language and literature

This instructional program class comprises any program that focuses on the Arabic language. These programs include courses in philology, classical Arabic, modern Standard Arabic, dialects, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Arabic

- Arabic language
- Arabic language, literature and linguistics
- Arabic literature

Exclusion(s)

- Islamic studies (See 38.0205-Islamic studies)
- Near and Middle Eastern studies (See 05.0108-Near and Middle Eastern studies)

16.1102 Hebrew language and literature

This instructional program class comprises any program that focuses on the Hebrew language. These programs include courses in philology, Biblical Hebrew (including Pre- and Post-Exilic scripts), modern Hebrew, dialects, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Hebrew
- Hebrew language
- Hebrew language and literature

Exclusion(s)

- Biblical languages and literature (See 16.1103-Ancient Near Eastern and Biblical languages, literatures and linguistics)
- Jewish studies (See 38.0206-Jewish/Judaic studies)
- Semitic languages and literature (See 16.1100-Middle/Near Eastern and Semitic languages, literatures and linguistics, general)

16.1103 Ancient Near Eastern and Biblical languages, literatures and linguistics

This instructional program class comprises any program that focuses on one or more of the extinct Semitic and/or Non-Semitic languages spoken in the ancient Near East, including those used to write historical Jewish and Christian religious texts. These languages include, but are not limited to, Egyptian/Coptic, Sumerian, Akkadian, Babylonian, Assyrian, Aramaic, Canaanite, Phoenician, Samaritan, Ugaritic, Syriac, Mandaean, Hattic, Elamite, Hurrian, Hittite, Urartian, Lydian, Luwian, Lycian, Palaic, Sabaeen/South Arabian, and other associated languages. These programs include courses in philology, epigraphy, papyrology, numismatics, and textual studies.

Illustrative example(s)

- Akkadian
- Ancient Near Eastern languages and literature
- Assyrian
- Babylonian
- Biblical languages
- Biblical languages and literature
- Biblical literature
- Hittite
- Phoenician
- Sumerian

Exclusion(s)

- Bible studies (See 39.0201-Bible/Biblical studies)
- Semitic languages and literature (See 16.1100-Middle/Near Eastern and Semitic languages, literatures and linguistics, general)

16.1199 Middle/Near Eastern and Semitic languages, literatures and linguistics, other

This instructional program class comprises any program not listed above that relates to Middle/Near Eastern and Semitic languages, literatures and linguistics.

Illustrative example(s)

- Berber languages
- Cushitic languages
- Maltese
- modern Assyrian
- other Middle/Near Eastern and Semitic languages, literatures and linguistics

Exclusion(s)

- Semitic languages and literature (See 16.1100-Middle/Near Eastern and Semitic languages, literatures and linguistics, general)

16.12 Classics and classical languages, literatures and linguistics

This subseries comprises instructional program classes 16.1200 to 16.1299.

16.1200 Classics and classical languages, literatures and linguistics, general

This instructional program class comprises any general program that focuses on the literary culture of the ancient Graeco-Roman world and the Greek and Latin languages and literatures and their development prior to the fall of the Roman Empire.

Illustrative example(s)

- classical languages
- classical literature
- classics and classical languages, literatures and linguistics
- classics literature

Exclusion(s)

- classical Greek (See 16.1202-Ancient/classical Greek language and literature)
- classical studies (See 30.2202-Classical, ancient Mediterranean and Near Eastern studies and archaeology)
- classics (See 30.2202-Classical, ancient Mediterranean and Near Eastern studies and archaeology)
- English literature (See 23.1401-English literature, general)
- French general literature (See 55.1401-French literature, general)
- Greek language and literature (See 16.0601-Modern Greek language and literature)
- Latin (See 16.1203-Latin language and literature)
- Latin teacher education (See 13.1333-Latin teacher education)
- medieval studies (See 30.1301-Medieval and renaissance studies)

16.1202 Ancient/classical Greek language and literature

This instructional program class comprises any program that focuses on the Greek language and literature from its origins through the fall of the Byzantine (Eastern Roman) Empire, as a secular and/or theological subject. These programs include courses in philology, Attic and Hellenistic dialects, Koine (Biblical) Greek, and Medieval or Byzantine Greek.

Illustrative example(s)

- ancient Greek
- ancient Greek language
- ancient Greek language and literature
- ancient Greek literature
- biblical Greek
- classical Greek
- classical Greek language
- classical Greek language and literature
- classical Greek literature
- Hellenistic Greek

Exclusion(s)

- ancient Greek and Roman studies (See 30.2202-Classical, ancient Mediterranean and Near Eastern studies and archaeology)
- classical languages (See 16.1200-Classics and classical languages, literatures and linguistics, general)
- Greek language and literature (See 16.0601-Modern Greek language and literature)

16.1203 Latin language and literature

This instructional program class comprises any program that focuses on the Latin language and literature from its origins through its decline and its current ecclesiastical usage, as a secular and/or theological subject. These programs include courses in philology, related Italic dialects, Late Roman and Medieval Latin, and modern Church Latin.

Illustrative example(s)

- Church Latin
- Late Roman Latin
- Latin
- Latin language
- Latin language and literature
- Latin literature
- Latin studies
- Medieval Latin
- modern Church Latin

Exclusion(s)

- Byzantine civilization (See 30.2202-Classical, ancient Mediterranean and Near Eastern studies and archaeology)
- classical languages (See 16.1200-Classics and classical languages, literatures and linguistics, general)
- Latin teacher education (See 13.1333-Latin teacher education)
- medieval studies (See 30.1301-Medieval and renaissance studies)
- religious studies (See 38.0201-Religion/religious studies, general)

16.1299 Classics and classical languages, literatures and linguistics, other

This instructional program class comprises any program not listed above that relates to Classics and classical languages, literatures and linguistics.

Illustrative example(s)

- Etruscan
- Oscan
- other Classics and classical languages, literatures and linguistics
- Samnian

Exclusion(s)

- ancient Greek (See 16.1202-Ancient/classical Greek language and literature)
- classical languages (See 16.1200-Classics and classical languages, literatures and linguistics, general)
- Latin (See 16.1203-Latin language and literature)

16.13 Celtic languages, literatures and linguistics

This subseries comprises instructional program class 16.1301.

16.1301 Celtic languages, literatures and linguistics

This instructional program class comprises any program that focuses on the historical and modern languages spoken by the Celtic peoples of the British Isles, Continental Europe, and Asia Minor including, but not limited to, modern languages such as Irish, Scots Gaelic, Welsh, and Breton; and extinct or revived languages such

as Cornish, Manx, Galatian, and others. These programs include courses in philology, linguistics, dialects and pidgins, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Breton
- brythonic languages
- Celtic languages
- Celtic languages and literature
- Celtic literature
- Cornish
- goidelic languages
- Irish Gaelic
- Scots Gaelic
- Welsh

Exclusion(s)

- Irish studies (See 05.0133-Irish studies)
- Scots (See 16.0599-Germanic languages, literatures and linguistics, other)
- Western European studies (See 05.0114-Western European studies)

16.14 Southeast Asian and Australasian/Pacific languages, literatures and linguistics

This subseries comprises instructional program classes 16.1400 to 16.1499.

16.1400 Southeast Asian languages, literatures and linguistics, general

This instructional program class comprises any program that generally focuses on one or more of the modern languages spoken in mainland Southeast Asia and the Indonesian and Philippines Archipelagoes, including, but not limited to, members of the Thai, Tibeto-Burman, and Malayo-Polynesian language families. These programs include courses that may involve multiple languages and language families, not be specific as to the name of the language(s) studied, or be otherwise undifferentiated.

Illustrative example(s)

- Southeast Asian languages
- Southeast Asian languages and literature
- Southeast Asian linguistics
- Southeast Asian literature

Exclusion(s)

- Southeast Asian studies (See 05.0113-Southeast Asian studies)

16.1401 Australian/Oceanic/Pacific languages, literatures and linguistics

This instructional program class comprises any program that focuses on the languages native to Papua/New Guinea, Australia, New Zealand, and the island groups of the Pacific Ocean, including, but not limited to, the Papuan languages; the Australian languages; the Micronesian languages; and the Polynesian languages. These programs include courses in philology, linguistics, dialects and pidgins, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Australian languages
- Fijian
- Indo-Pacific languages
- Māori
- Oceanic languages
- Papuan languages
- Polynesian languages

- Samoan
- Tahitian
- Tongan

Exclusion(s)

- Hawaiian language and literature (See 16.1409-Hawaiian language and literature)
- Indigenous languages, literatures, and linguistics of the Americas (See 16.1001-Indigenous languages, literatures, and linguistics of the Americas)
- Pacific studies (See 05.0109-Pacific/Australasian/Oceanian studies)
- Southeast Asian languages (See 16.1400-Southeast Asian languages, literatures and linguistics, general)

16.1402 Indonesian/Malay languages and literatures

This instructional program class comprises any program that focuses on the Malay and Indonesian languages. These programs include courses in philology, dialects, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Bahasa Indonesian
- Bahasa Indonesian languages and literature
- Indonesian languages
- Indonesian languages and literature
- Indonesian literature
- Malay languages
- Malay languages and literature
- Malay literature

Exclusion(s)

- Southeast Asian languages (See 16.1400-Southeast Asian languages, literatures and linguistics, general)
- Southeast Asian studies (See 05.0113-Southeast Asian studies)

16.1403 Burmese language and literature

This instructional program class comprises any program that focuses on the Burmese language. These programs include courses in philology, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Burmese language
- Burmese language and literature
- Burmese literature

Exclusion(s)

- South Asian studies (See 05.0112-South Asian studies)
- Southeast Asian languages (See 16.1400-Southeast Asian languages, literatures and linguistics, general)

16.1404 Philippine/Tagalog language and literature

This instructional program class comprises any program that focuses on the modern Filipino/Tagalog language as used in the Philippines. These programs include courses in philology, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Filipino
- Filipino language
- Filipino language and literature
- Filipino literature
- Tagalog

- Tagalog language
- Tagalog language and literature
- Tagalog literature

Exclusion(s)

- Southeast Asian languages (See 16.1400-Southeast Asian languages, literatures and linguistics, general)
- Southeast Asian studies (See 05.0113-Southeast Asian studies)

16.1405 Khmer/Cambodian language and literature

This instructional program class comprises any program that focuses on the Khmer language as spoken in Cambodia. These programs include courses in philology, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Cambodian
- Cambodian language
- Cambodian language and literature
- Cambodian literature
- Khmer
- Khmer language
- Khmer language and literature
- Khmer literature

Exclusion(s)

- Southeast Asian languages (See 16.1400-Southeast Asian languages, literatures and linguistics, general)
- Southeast Asian studies (See 05.0113-Southeast Asian studies)

16.1406 Lao language and literature

This instructional program class comprises any program that focuses on the Lao language. These programs include courses in philology, dialects, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Lao
- Lao language
- Lao language and literature
- Lao literature
- Laotian language and literature
- Laotian language
- Laotian literature

Exclusion(s)

- Southeast Asian languages (See 16.1400-Southeast Asian languages, literatures and linguistics, general)
- Southeast Asian studies (See 05.0113-Southeast Asian studies)

16.1407 Thai language and literature

This instructional program class comprises any program that focuses on the Thai languages. These programs include courses in philology, dialects, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Thai
- Thai language
- Thai language and literature

- Thai literature

Exclusion(s)

- Southeast Asian languages (See 16.1400-Southeast Asian languages, literatures and linguistics, general)
- Southeast Asian studies (See 05.0113-Southeast Asian studies)

16.1408 Vietnamese language and literature

This instructional program class comprises any program that focuses on the Vietnamese language. These programs include courses in philology, dialects, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Vietnamese
- Vietnamese language
- Vietnamese language and literature
- Vietnamese literature

Exclusion(s)

- East Asian languages and literature (See 16.0300-East Asian languages, literatures and linguistics, general)
- Oriental languages (See 16.9999-Indigenous and foreign languages, literatures and linguistics, other)
- Southeast Asian languages (See 16.1400-Southeast Asian languages, literatures and linguistics, general)
- Southeast Asian studies (See 05.0113-Southeast Asian studies)

16.1409 Hawaiian language and literature

This instructional program class comprises any program that focuses on the Hawaiian language and related dialects. These programs include courses in philology, dialects, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Hawaiian
- Hawaiian language
- Hawaiian language and literature
- Hawaiian literature

Exclusion(s)

- Indigenous languages and literature (See 16.1001-Indigenous languages, literatures, and linguistics of the Americas)
- Polynesian languages (See 16.1401-Australian/Oceanic/Pacific languages, literatures and linguistics)

16.1499 Southeast Asian and Australasian/Pacific languages, literatures and linguistics, other

This instructional program class comprises any program not listed above that relates to Southeast Asian and Australasian/Pacific languages, literatures and linguistics.

Illustrative example(s)

- Achinese
- Batak
- Bisayan
- Kachin
- Karen
- Lolo-Moso
- Madurese
- Makasarese

- Malagasy
- Sundan

Exclusion(s)

- Southeast Asian languages (See 16.1400-Southeast Asian languages, literatures and linguistics, general)
- Southeast Asian studies (See 05.0113-Southeast Asian studies)

16.15 Turkic, Uralic-Altaic, Caucasian and Central Asian languages, literatures and linguistics

This subseries comprises instructional program classes 16.1501 to 16.1599.

16.1501 Turkish language and literature

This instructional program class comprises any program that focuses on the Turkish language in either or both of its pre-modern and modern variants. These programs include courses in philology, Ottoman Turkish, modern Turkish, dialects, and applications to business, science/technology, and other settings.

Illustrative example(s)

- modern Turkish
- Ottoman Turkish
- Turkish
- Turkish language
- Turkish language and literature
- Turkish literature

Exclusion(s)

- East European studies (See 05.0105-Russian, Central European, East European and Eurasian studies)
- Near and Middle Eastern studies (See 05.0108-Near and Middle Eastern studies)

16.1502 Uralic languages, literatures and linguistics

This instructional program class comprises any program that focuses on Uralic languages, including, but not limited to, Finnish, Estonian, Karelian, and Sami. These programs include courses in philology, oral and written literatures, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Estonian
- Finnish
- Finnish language and literature
- Finnish literature
- Karelian
- Sami
- Uralic languages
- Uralic languages and literature
- Uralic linguistics
- Uralic literature

Exclusion(s)

- Scandinavian languages, literature and linguistics (See 16.0502-Scandinavian languages, literatures and linguistics)
- Scandinavian studies (See 05.0111-Scandinavian studies)

16.1503 Hungarian/Magyar language and literature

This instructional program class comprises any program that focuses on the Hungarian language. These programs include courses in philology, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Hungarian
- Hungarian language
- Hungarian language and literature
- Hungarian literature
- Magyar language
- Magyar language and literature
- Magyar literature

Exclusion(s)

- East European studies (See 05.0105-Russian, Central European, East European and Eurasian studies)

16.1504 Mongolian language and literature

This instructional program class comprises any program that focuses on the Mongolian language. These programs include courses in philology, dialects, oral and written literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Mongolian
- Mongolian language
- Mongolian language and literature
- Mongolian literature

Exclusion(s)

- Central Asian studies (See 05.0120-Ural-Altai and Central Asian studies)
- Oriental languages (See 16.9999-Indigenous and foreign languages, literatures and linguistics, other)

16.1599 Turkic, Uralic-Altai, Caucasian and Central Asian languages, literatures and linguistics, other

This instructional program class comprises any program not listed above that relates to Turkic, Uralic-Altai, Caucasian, and Central Asian languages, literatures, and linguistics.

Illustrative example(s)

- Altaic
- Bashkir
- Chechen-Ingushetian
- Georgian
- Kazakh
- Kirghiz
- Turkmen
- Uighur
- Uzbek

16.16 Sign language

This subseries comprises instructional program classes 16.1601 to 16.1699.

16.1601 American Sign Language (ASL)/Langue des signes québécoise (LSQ)

This instructional program class comprises any program that focuses on American Sign Language (ASL) and/or Langue des signes québécoise (LSQ) as visual and motor media of communication and discourse for deaf individuals and deaf culture. These programs include courses in the development of ASL/LSQ, ASL/LSQ morphology and syntax, signing technique, English and/or French translation of ASL/LSQ, formal and colloquial ASL/LSQ, and ASL/LSQ transcription.

Illustrative example(s)

- American Sign Language
- ASL
- langue des signes québécoise
- LSQ
- sign language

Exclusion(s)

- deaf studies and ASL (See 05.0211-Deaf studies)
- linguistics of signed languages (See 16.1602-Linguistics of sign language)
- sign language interpretation (See 16.1603-Sign language interpretation and translation)
- teacher of the deaf (See 13.1003-Education/teaching of individuals with hearing impairments including deafness)

16.1602 Linguistics of sign language

This instructional program class comprises any program that focuses on the scientific and scholarly study of the development, structure, and use of American Sign Language (ASL), Langue des signes québécoise (LSQ) and other visual signed languages, both as vehicles for communication within the deaf community and in relation to spoken and written languages. These programs include courses in cognitive linguistics; sign language phonology, syntax, and morphology; sociolinguistics of the deaf community; comparative linguistics; and studies of specific sign languages, including, but not limited to, ASL, LSQ, Auslan (Australian Sign Language), LSF (Langue des signes française), Shuwa jiten (Japanese Sign Language), HamNoSys (German Sign Language), and Gestuno.

Illustrative example(s)

- linguistics of sign language
- linguistics of signed languages
- sign language linguistics

Exclusion(s)

- American Sign Language (See 16.1601-American Sign Language (ASL)/Langue des signes québécoise (LSQ))
- applied linguistics (See 16.0105-Applied linguistics)
- sign language interpretation (See 16.1603-Sign language interpretation and translation)

16.1603 Sign language interpretation and translation

This instructional program class comprises any program that prepares individuals to function as simultaneous interpreters of American Sign Language (ASL), Langue des signes québécoise (LSQ), and other sign language systems employed to assist the hearing impaired, both one-way and two-way. These programs include courses in sign language, finger spelling, vocabulary and expressive nuances, oral and physical translation skills, cross-cultural communications, slang and colloquialisms, and technical interpretation.

Illustrative example(s)

- American Sign Language interpreting
- ASL interpreting
- sign language communicator
- sign language interpretation
- sign language translation

Exclusion(s)

- legal interpretation and translation (See 22.0304-Court interpreter)

16.1699 Sign language, other

This instructional program class comprises any program not listed above that relates to Sign language.

Illustrative example(s)

- other sign language

16.17 Second language learning

This subseries comprises instructional program classes 16.1701 to 16.1799.

16.1701 English as a second language

This instructional program class comprises any program that focuses on the development of proficiency in reading, writing, and speaking English for those for whom English is not their mother tongue. These programs include courses in the use of basic communication skills to develop and transmit ideas and thoughts in English as well as specialized programs that focus on the development of proficiency in English sufficient to meet specific occupational or academic demands. Note: These programs are for academic credit towards a postsecondary credential. For second language programs that are not for academic credit towards a postsecondary credential, see 32.0109.

Illustrative example(s)

- English as a second language
- ESL

Exclusion(s)

- bilingual and multilingual education (See 13.0201-Bilingual and multilingual education)
- English as a second language (not for credit) (See 32.0109-Second language learning (not for credit))
- English teacher (See 13.1305-English/English language arts teacher education)
- teaching English as a second language (See 13.1401-Teaching English as a second or foreign language/ESL language instructor)

16.1702 French as a second language^{CAN}

This instructional program class comprises any program that focuses on the development of proficiency in reading, writing, and speaking French for those for whom French is not their mother tongue. These programs include courses in the use of basic communication skills to develop and transmit ideas and thoughts in French as well as specialized programs that focus on the development of proficiency in French sufficient to meet specific occupational or academic demands. Note: These programs are for academic credit towards a postsecondary credential. For second language programs that are not for academic credit towards a postsecondary credential, see 32.0109.

Illustrative example(s)

- French as a second language
- FSL

Exclusion(s)

- bilingual and multilingual education (See 13.0201-Bilingual and multilingual education)
- French as a second language (not for credit) (See 32.0109-Second language learning (not for credit))
- French teacher (See 13.1325-French language/French language arts teacher education)
- teaching French as a second language (See 13.1402-Teaching French as a second or foreign language)

16.1799 Second language learning, other^{CAN}

This instructional program class comprises any program not listed above that relates to Second language learning. Note: These programs are for academic credit towards a postsecondary credential. For second language programs that are not for academic credit towards a postsecondary credential, see 32.0109.

Illustrative example(s)

- Native as a second language
- other second language learning

- second language learning
- Spanish as a second language

Exclusion(s)

- second language learning (not for credit) (See 32.0109-Second language learning (not for credit))

16.18 Armenian languages, literatures, and linguistics

This subseries comprises instructional program class 16.1801.

16.1801 Armenian languages, literatures, and linguistics

This instructional program class comprises any program that focuses on the historical and modern languages spoken by Armenians. These programs include courses in philology, linguistics, dialects and pidgins, literature, and applications to business, science/technology, and other settings.

Illustrative example(s)

- Armenian
- Armenian language
- Armenian language and literature
- Armenian language, literature and linguistics
- Armenian literature

Exclusion(s)

- other Turkic, Uralic-Altaic, Caucasian and Central Asian languages (See 16.1599-Turkic, Uralic-Altaic, Caucasian and Central Asian languages, literatures and linguistics, other)

16.99 Indigenous and foreign languages, literatures and linguistics, other

This subseries comprises instructional program class 16.9999.

16.9999 Indigenous and foreign languages, literatures and linguistics, other

This instructional program class comprises any program not listed above that relates to Indigenous and foreign languages, literatures and linguistics.

Illustrative example(s)

- Basque
- Oriental languages
- other Indigenous and foreign languages, literatures and linguistics

Exclusion(s)

- teaching foreign languages (See 13.1306-Indigenous and foreign language teacher education)

19. Family and consumer sciences/human sciences

This series comprises instructional programs that focus on the human interface with the physical, social, emotional, and intellectual environments and the developmental stages and needs of individuals in the interrelated spheres of family, workplace, and community.

19.01 Family and consumer sciences/human sciences, general

This subseries comprises instructional program class 19.0101.

19.0101 Family and consumer sciences/human sciences, general

This instructional program class comprises any general program that focuses on family and consumer sciences, including how individuals develop and function in family, work, and community settings and how they relate to their physical, social, emotional, and intellectual environments.

Illustrative example(s)

- applied human sciences
- domestic science
- family and consumer sciences
- family science
- family social sciences
- home economics
- household science
- human ecology

Exclusion(s)

- consumer economics (See 19.0402-Consumer economics)
- consumer sciences (See 19.0201-Business, family and consumer sciences/human sciences)
- consumer services (See 19.0403-Consumer services and advocacy)
- ecology (See 26.1301-Ecology)
- family and consumer sciences communications (See 19.0202-Family and consumer sciences/human sciences communication)
- family and consumer studies teaching (See 13.1308-Family and consumer sciences/home economics teacher education)
- family resource management (See 19.0401-Family resource management studies, general)
- family studies (See 19.1001-Work and family studies)
- humanities, art and literature (See 24.0103-Humanities/humanistic studies)
- social services worker (See 44.0000-Human services, general)
- sociology (See 45.1101-Sociology, general)

19.02 Family and consumer sciences/human sciences business services

This subseries comprises instructional program classes 19.0201 to 19.0299.

19.0201 Business, family and consumer sciences/human sciences

This instructional program class comprises any program that focuses on the relationship between the economy and the consuming individual and family. These programs include courses in consumption theory and practice, the production and distribution of retail goods and services, and the management of business enterprises.

Illustrative example(s)

- business and family and consumer sciences
- combined business and consumer sciences
- combined business and human sciences
- consumer behaviour
- consumer sciences
- consumer studies
- family and consumer studies

Exclusion(s)

- family and consumer sciences communications (See 19.0202-Family and consumer sciences/human sciences communication)
- family and consumer studies teaching (See 13.1308-Family and consumer sciences/home economics teacher education)

19.0202 Family and consumer sciences/human sciences communication

This instructional program class comprises any program that focuses on communication of human sciences subject matter and related consumer information to a variety of audiences through print and non-print media.

Illustrative example(s)

- communication in consumer sciences
- communication in family and consumer sciences
- communication in human sciences
- family and consumer sciences communications

Exclusion(s)

- communication studies (See 09.0100-Communication, general)
- consumer sciences (See 19.0201-Business, family and consumer sciences/human sciences)
- family and consumer studies teaching (See 13.1308-Family and consumer sciences/home economics teacher education)

19.0203 Consumer merchandising/retailing management

This instructional program class comprises any program that focuses on product and service promotion from the perspective of individual and family consumers and that prepares individuals to function as consumer management and marketing consultants in for-profit and non-profit enterprises. These programs include courses in applied market research; consumer behaviour; product sourcing and distribution; profitability; customer feedback and evaluation methods; promotion and retailing campaign development; and applications to specific domestic and international consumer markets.

Illustrative example(s)

- consumer management and merchandising

Exclusion(s)

- marketing (See 52.1401-Marketing/marketing management, general)
- marketing research (See 52.1402-Marketing research)
- merchandising (See 52.1802-Merchandising and buying operations)

19.0299 Family and consumer sciences/human sciences business services, other

This instructional program class comprises any program not listed above that relates to Family and consumer sciences/human sciences business services.

Illustrative example(s)

- other family and consumer sciences/human sciences business services

19.04 Family and consumer economics and related services

This subseries comprises instructional program classes 19.0401 to 19.0499.

19.0401 Family resource management studies, general

This instructional program class comprises any general program that focuses on the design and implementation of policies and processes contributing to successful individual and family resource management. These programs include courses in financial goal-setting and strategies; household income, assets, and debt management; preventing and resolving financial difficulties; and the use of relevant public resources.

Illustrative example(s)

- family resource management

Exclusion(s)

- consumer economics (See 19.0402-Consumer economics)
- financial planning (See 52.0804-Financial planning and services)
- home economics education (See 13.1308-Family and consumer sciences/home economics teacher education)

19.0402 Consumer economics

This instructional program class comprises any program that focuses on the application of micro- and macro-economic theory to consumer behaviour and individual and family consumption of goods and services. These programs include courses in modelling, economic forecasting, indexing, price theory, and analysis of individual commodities and services and/or groups of related commodities and services.

Illustrative example(s)

- consumer economics

Exclusion(s)

- economics (See 45.0601-Economics, general)
- family resource management (See 19.0401-Family resource management studies, general)
- home economics (See 19.0101-Family and consumer sciences/human sciences, general)
- social economics (See 45.0699-Economics, other)

19.0403 Consumer services and advocacy

This instructional program class comprises any program that focuses on providing end-use advice and representational services to individuals and groups within a variety of settings, and the analytical and research techniques needed to protect consumers from unsafe, unreliable, and/or unhealthy products and services. These programs include courses in consumer advocacy, family management systems, ecological impacts of consumption practices, and analyzing and testing product quality and safety.

Illustrative example(s)

- consumer advocacy
- consumer education and advocacy
- consumer protection
- consumer services

Exclusion(s)

- community organization and advocacy (See 44.0201-Community organization and advocacy)
- consumer sciences (See 19.0201-Business, family and consumer sciences/human sciences)
- family and consumer sciences communications (See 19.0202-Family and consumer sciences/human sciences communication)

19.0499 Family and consumer economics and related services, other

This instructional program class comprises any program not listed above that relates to Family and consumer economics and related services.

Illustrative example(s)

- other family and consumer economics and related services

19.05 Foods, nutrition and related services

This subseries comprises instructional program classes 19.0501 to 19.0599.

19.0501 Foods, nutrition and wellness studies, general

This instructional program class comprises any general program that focuses on the role of foods and nutrition in human health and wellness. These programs include courses in nutritional care and education, the planning and provision of food services, the development of consumable food products, life-span nutrition and wellness, the principles of nutritional assessment, and food safety and food composition.

Illustrative example(s)

- food and nutrition
- food, nutrition and health

- nutrition
- nutrition and wellness

Exclusion(s)

- food preparation (See 12.0505-Food preparation/professional cooking/kitchen assistant)
- food science (See 01.1001-Food science)
- nutrition science (See 30.1901-Nutrition sciences)
- nutritionist (See 51.3102-Clinical nutrition/nutritionist)

19.0504 Human nutrition

This instructional program class comprises any program that focuses on the relationships between food consumption and human development and health. These programs include courses in the cellular and molecular processes of food processing in the human body, related metabolic processes, the relationship of food and nutrition to disease, and nutritional needs across the lifespan.

Illustrative example(s)

- applied human nutrition
- food and human nutrition
- human nutrition

Exclusion(s)

- animal nutrition (See 01.0904-Animal nutrition)
- food preparation (See 12.0505-Food preparation/professional cooking/kitchen assistant)
- food science (See 01.1001-Food science)
- nutrition science (See 30.1901-Nutrition sciences)
- nutritionist (See 51.3102-Clinical nutrition/nutritionist)

19.0505 Foodservice systems administration/management

This instructional program class comprises any program that focuses on the principles and practices relating to the administration of food service systems in institutional settings, and that prepares individuals to manage such operations in public and private facilities. These programs include courses in human nutrition, food safety, the design and organization of food service systems, purchasing, personnel management, and related business practices.

Illustrative example(s)

- dietary and food service management
- food services management
- foodservice systems administration
- foodservice systems management
- nutrition and food service management

Exclusion(s)

- food and beverage service (See 12.0507-Food service, waiter/waitress and dining room management/manager)
- hospitality administration (See 52.0901-Hospitality administration/management, general)
- hotel management (See 52.0904-Hotel/motel administration/management)
- restaurant culinary management (See 12.0504-Restaurant, culinary and catering management/manager)
- restaurant management (See 52.0905-Restaurant/food services management)

19.0599 Foods, nutrition and related services, other

This instructional program class comprises any program not listed above that relates to Foods, nutrition and related services.

Illustrative example(s)

- other foods, nutrition and related services

19.06 Housing and human environments

This subseries comprises instructional program classes 19.0601 to 19.0699.

19.0601 Housing and human environments, general

This instructional program class comprises any general program that focuses on the behavioural, social, economic, functional, and aesthetic aspects of housing, interiors, and other built environments. These programs include courses in analyzing, planning, designing, furnishing, and equipping residential, work, and leisure spaces to meet user needs and the study of related public policies.

Illustrative example(s)

- housing and human environments

Exclusion(s)

- environmental design (See 04.0401-Environmental design/architecture, general)
- interior architecture (See 04.0501-Interior architecture)
- interior decorating (See 19.0605-Home furnishings and equipment installers)
- interior design (See 50.0408-Interior design)

19.0604 Facilities planning and management

This instructional program class comprises any program that focuses on strategic workplace and facility planning and that prepares individuals to function as facility and event managers and workplace consultants. These programs include courses in the principles of aesthetic and functional design; environmental psychology and organizational behaviour; real estate planning; principles of occupational health and safety; event planning and management; operations management; and applicable regulatory and policy issues.

Illustrative example(s)

- facilities management
- facility planning

Exclusion(s)

- building service technician (See 46.0401-Building/property maintenance)
- hotel management (See 52.0904-Hotel/motel administration/management)
- meeting and event planning (See 52.0907-Meeting and event planning)
- sports and fitness management (See 31.0504-Sport and fitness administration/management)
- sports centre management (See 31.0301-Parks, recreation, and leisure facilities management, general)

19.0605 Home furnishings and equipment installers

This instructional program class comprises any program that prepares individuals to assist in home furnishings and decorations. These programs include courses in selecting, purchasing, designing and decorating; home furnishings and equipment; floral design; accessory construction; textiles; and upholstery.

Illustrative example(s)

- home decorating
- home furnishings and equipment
- home staging
- interior decorating
- residential decorator

Exclusion(s)

- carpet, flooring, and tile technician (See 46.0413-Carpet, floor, and tile worker)

- environmental design (See 04.0401-Environmental design/architecture, general)
- floral design (See 01.0608-Floriculture/floristry operations and management)
- interior architecture (See 04.0501-Interior architecture)
- interior design (See 50.0408-Interior design)
- painter and wall coverer (See 46.0408-Painting/painter and wall coverer)
- stagecraft (See 50.0502-Technical theatre/theatre design and technology)

19.0699 Housing and human environments, other

This instructional program class comprises any program not listed above that relates to Housing and human environments.

Illustrative example(s)

- other housing and human environments

19.07 Human development, family studies and related services

This subseries comprises instructional program classes 19.0701 to 19.0799.

19.0701 Human development and family studies, general

This instructional program class comprises any general program that focuses on basic human developmental and behavioural characteristics of the individual within the context of the family. These programs include courses in the conditions that influence human growth and development; strategies that promote growth and development across the lifespan; and the study of family systems.

Illustrative example(s)

- child and youth care
- family and child studies
- human development and family studies
- human development studies
- lifespan development
- Native family and child development

Exclusion(s)

- child development (See 19.0706-Child development)
- family science (See 19.0101-Family and consumer sciences/human sciences, general)
- family studies (See 19.1001-Work and family studies)
- family systems (See 19.0704-Family systems)
- youth services worker (See 44.0702-Youth services/administration)

19.0702 Adult development and aging

This instructional program class comprises any program that focuses on the characteristics of aging populations and the needs of older individuals in family and institutional settings. These programs include courses in the biological and psychological stages of aging; the provision of dependent care; serving the social, economic, and psychological needs of aging adults; related public policy issues; and adult community resources.

Illustrative example(s)

- adult development
- adult development and aging
- gerontological services

Exclusion(s)

- adult health nursing (See 51.3803-Adult health nurse/nursing)
- geriatric medicine - fellowship (See 61.0203-Geriatric medicine fellowship programs)
- geriatric nursing (See 51.3821-Geriatric nurse/nursing)

- gerontology (See 30.1101-Gerontology)
- geropsychology (See 42.2809-Geropsychology)
- home support aide (See 51.2602-Home health aide/home attendant)

19.0704 Family systems

This instructional program class comprises any program that focuses on the family as a social unit in its developmental, dynamic, comparative, and structural aspects, and the significance of the family as a system that impacts individuals and society. These programs include courses in related principles of sociology, psychology, behavioural sciences, and the humanities.

Illustrative example(s)

- family relations
- family systems

Exclusion(s)

- behavioural science (See 30.1701-Behavioural sciences)
- family and child studies (See 19.0701-Human development and family studies, general)
- family psychology (See 42.2811-Family psychology)
- family studies (See 19.1001-Work and family studies)
- family therapy (See 51.1505-Marriage and family therapy/counselling)

19.0706 Child development

This instructional program class comprises any program that focuses on the intellectual, social, emotional, and biological development of children and the planning and design of related human services. These programs include courses in parent-child relations; parenting practices; special needs of children; parental and environmental influences on child development; external support services; and related public policy issues.

Illustrative example(s)

- applied child studies
- child and youth studies
- child development
- child growth, care and development studies
- child studies
- childhood development
- early child development
- early childhood development

Exclusion(s)

- birthing and parenting knowledge and skills (not for credit) (See 34.0102-Birthing and parenting knowledge and skills (not for credit))
- child and youth care (See 19.0701-Human development and family studies, general)
- child care provider (See 19.0709-Child care provider/assistant)
- developmental and child psychology (See 42.2703-Developmental and child psychology)
- early childhood education teaching (Bachelor) (See 13.1210-Early childhood education and teaching)
- youth services worker (See 44.0702-Youth services/administration)

19.0707 Family and community services

This instructional program class comprises any program that focuses on the development and implementation of public, private, and voluntary support services for individuals, families, and localities and that prepares individuals to function in a variety of occupations promoting family life, and family/community development. These programs include courses in family systems, human development, social services, community social and economic development, social policy, voluntary sector activities, and outreach and community education.

Illustrative example(s)

- community development worker
- community service worker
- community services
- community support worker
- family and community services
- family services
- Indigenous family support

Exclusion(s)

- community awareness (not for credit) (See 33.0103-Community awareness (not for credit))
- community health services (See 51.1504-Community health services/liaison/counselling)
- community involvement (not for credit) (See 33.0104-Community involvement (not for credit))
- community organization and advocacy (See 44.0201-Community organization and advocacy)
- developmental services worker (DSW) (See 19.0710-Developmental services worker)
- social services worker (See 44.0000-Human services, general)
- social work (See 44.0701-Social work, general)
- youth services worker (See 44.0702-Youth services/administration)

19.0708 Child care and support services management

This instructional program class comprises any program that focuses on the provision and management of child care services and that prepares individuals to plan, design, and manage child care facilities and programs that meet children's developmental needs and interests and that provide safe and healthy environments. These programs include courses in child development and psychology; home- and institution-based child care; identification of diseases, injuries, and psychological trauma and applicable referrals; parent relations; personnel and business management principles; and related laws and policies.

Illustrative example(s)

- child care administration
- child care and support services management
- child care centre administration
- child care management
- child day care management
- daycare management

Exclusion(s)

- child and youth care (See 19.0701-Human development and family studies, general)
- child care provider (See 19.0709-Child care provider/assistant)
- child development (See 19.0706-Child development)
- early childhood education teaching (Bachelor) (See 13.1210-Early childhood education and teaching)
- guidance counsellor (See 13.1101-Counsellor education/school counselling and guidance services)
- youth services worker (See 44.0702-Youth services/administration)

19.0709 Child care provider/assistant

This instructional program class comprises any program that prepares individuals to be primary providers of home, family, residential, or institutional-based child care services. These programs include courses in child growth and development; nutrition; recreation; planning and supervision of play and learning activities; child abuse and neglect prevention; parent-child relationships; and applicable legal and administrative requirements.

Illustrative example(s)

- child care
- child care assistant
- child care services
- child care worker

- day care services
- daycare assistant
- daycare provider
- daycare worker
- early childhood education (college)
- early childhood educator assistant

Exclusion(s)

- child and youth care (See 19.0701-Human development and family studies, general)
- child care management (See 19.0708-Child care and support services management)
- child development (See 19.0706-Child development)
- early childhood education teaching (Bachelor) (See 13.1210-Early childhood education and teaching)
- youth services worker (See 44.0702-Youth services/administration)

19.0710 Developmental services worker

This instructional program class comprises any program that prepares individuals to apply practical knowledge and skills to support individuals with a variety of physical, mental or developmental disabilities in a family or community setting. These programs include courses in health care, basic nutrition, pharmacology, nursing, autism, mental health, psychology, sociology, behavioural analysis, communication, intervention, counselling and community services, and developmental services, such as literacy and life skills training.

Illustrative example(s)

- developmental services worker
- developmental services worker (DSW)
- disability and community rehabilitation
- DSW

Exclusion(s)

- community services (See 19.0707-Family and community services)
- developmental education, general (See 32.0101-Basic skills, general (not for credit))
- disability studies (See 05.0210-Disability studies)
- education of individuals who are developmentally delayed (See 13.1014-Education/teaching of individuals who are developmentally delayed)
- PSW (See 51.2602-Home health aide/home attendant)
- social services worker (See 44.0000-Human services, general)
- youth services worker (See 44.0702-Youth services/administration)

19.0711 Early childhood and family studies

This instructional program class comprises any program that focuses on the development and learning of children from birth to six years old within the context of the family. These programs include courses in child abuse and neglect, child and infant growth and development, early childhood education, early childhood language and literacy, early childhood math and science, early childhood special education, family literacy, family sociology, family and marriage relations, assessment and measurement, psychology, and psychopathology.

Illustrative example(s)

- early childhood and family studies

Exclusion(s)

- child development (See 19.0706-Child development)
- early childhood education (Bachelor degree) (See 13.1210-Early childhood education and teaching)
- early childhood education (college) (See 19.0709-Child care provider/assistant)
- family studies (See 19.1001-Work and family studies)

19.0712 Parent education services

This instructional program class comprises any program that prepares individuals to plan, coordinate, and teach parent education programs and services that address the cultural, emotional, intellectual, physical and social needs of children and parents. These programs include courses in child development, cultural diversity in schools, child behaviour, family development, family-community partnerships, family dynamics, interpersonal relationships, parent-child relationships, and social services.

Illustrative example(s)

- parent education
- parent education services
- parent education teacher
- parenting education
- parenting education instructor training
- parenting education teacher

Exclusion(s)

- parenting skills (not for credit) (See 34.0102-Birthing and parenting knowledge and skills (not for credit))

19.0799 Human development, family studies and related services, other

This instructional program class comprises any program not listed above that relates to Human development, family studies and related services.

Illustrative example(s)

- adolescent development
- other human development, family studies and related services

Exclusion(s)

- adolescent developmental psychology (See 42.2710-Developmental and adolescent psychology)
- autism and behavioural studies (See 42.2814-Applied behaviour analysis)

19.09 Apparel and textiles

This subseries comprises instructional program classes 19.0901 to 19.0999.

19.0901 Apparel and textiles, general

This instructional program class comprises any general program that focuses on the development of textile products and their distribution and use in terms of the psychological, social, economic, and physical needs of consumers. These programs include courses in the production, distribution, marketing, and end use of various apparel and textile products.

Illustrative example(s)

- apparel and textiles
- clothing and textiles

Exclusion(s)

- textile arts (See 50.0712-Fibre, textile and weaving arts)
- textile manufacturing (See 19.0902-Apparel and textile manufacture)
- textile science (See 19.0904-Textile science)
- textile sciences and engineering (See 14.2801-Textile sciences and engineering)

19.0902 Apparel and textile manufacture

This instructional program class comprises any program that focuses on the design, development, and production of textile products and related processes and systems. These programs include courses in functional and

aesthetic design, human factors research, production planning, manufacturing processes, quality assessment, and distribution systems.

Illustrative example(s)

- apparel and textile manufacturing
- apparel production management
- fabric design
- fashion production
- industrial production of clothing
- textile design
- textile manufacturing
- textile production

Exclusion(s)

- apparel design (See 50.0407-Fashion/apparel design)
- clothing and textiles (See 19.0901-Apparel and textiles, general)
- custom tailoring and alterations (See 19.0999-Apparel and textiles, other)
- textile arts (See 50.0712-Fibre, textile and weaving arts)
- textile science (See 19.0904-Textile science)
- textile sciences and engineering (See 14.2801-Textile sciences and engineering)

19.0904 Textile science

This instructional program class comprises any program that focuses on the properties and processing of fibres, yarns, whole fabrics, dyes, and finishes, both natural and synthetic. These programs include courses in the chemical and physical properties of textile materials; end-use analysis; interior furnishing applications; and industrial applications.

Illustrative example(s)

- dye chemistry
- textile chemist
- textile chemistry
- textile science
- textile technology

Exclusion(s)

- clothing and textiles (See 19.0901-Apparel and textiles, general)
- textile arts (See 50.0712-Fibre, textile and weaving arts)
- textile manufacturing (See 19.0902-Apparel and textile manufacture)
- textile sciences and engineering (See 14.2801-Textile sciences and engineering)

19.0905 Apparel and textile marketing management

This instructional program class comprises any program that focuses on marketing research and management as applied to the products and services of the apparel and textile industries. These programs include courses in applicable principles of textile and apparel design and manufacturing, sales and distribution systems, domestic and international market research, profitability, consumer research, and the design and implementation of marketing campaigns.

Illustrative example(s)

- apparel and textile marketing management
- apparel marketing management
- fashion management
- international fashion development and management

Exclusion(s)

- apparel and accessories marketing operations (See 52.1904-Apparel and accessories marketing operations)
- apparel production management (See 19.0902-Apparel and textile manufacture)
- marketing management (See 52.1401-Marketing/marketing management, general)
- sales and marketing (See 52.1801-Sales, distribution and marketing operations, general)
- textile science (See 19.0904-Textile science)

19.0906 Fashion and fabric consultant

This instructional program class comprises any program that prepares individuals to assist in apparel and fashion selection, style coordination, customer sales and consulting, fabric selection, clothing specifications, and contract buying activities. These programs include courses in supplying regular clothing needs or acting as a consultant for special events such as weddings.

Illustrative example(s)

- fabric consultant
- fashion and fabric consultant
- fashion consultant
- fashion sales and consulting

Exclusion(s)

- apparel and accessories marketing operations (See 52.1904-Apparel and accessories marketing operations)
- clothing and textiles (See 19.0901-Apparel and textiles, general)
- fashion design (See 50.0407-Fashion/apparel design)
- fashion merchandising (See 52.1902-Fashion merchandising)

19.0999 Apparel and textiles, other

This instructional program class comprises any program not listed above that relates to Apparel and textiles.

Illustrative example(s)

- custom tailoring and alterations
- dressmaker
- dry cleaning
- dry cleaning and clothing maintenance
- furrier
- industrial power sewing
- leather apparel tailoring and accessory production
- sewing
- tailor

Exclusion(s)

- fashion design (See 50.0407-Fashion/apparel design)
- shoe making (See 48.0304-Shoe, boot and leather repair)

19.10 Work and family studies

This subseries comprises instructional program class 19.1001.

19.1001 Work and family studies

This instructional program class comprises any introductory program that focuses on family and consumer science concepts and principles at the basic and vocational levels, and the various potential career paths open to interested students. These programs include courses in career, community, and family connections; family and

family/consumer resources; human development; interpersonal relationships; nutrition and wellness; parenting; and career possibilities in various related areas.

Illustrative example(s)

- family studies
- work and family studies

Exclusion(s)

- family and child studies (See 19.0701-Human development and family studies, general)
- family and consumer sciences communications (See 19.0202-Family and consumer sciences/human sciences communication)
- family and consumer studies (See 19.0201-Business, family and consumer sciences/human sciences)
- family systems (See 19.0704-Family systems)
- home economics (See 19.0101-Family and consumer sciences/human sciences, general)
- social services worker (See 44.0000-Human services, general)

19.99 Family and consumer sciences/human sciences, other

This subseries comprises instructional program class 19.9999.

19.9999 Family and consumer sciences/human sciences, other

This instructional program class comprises any program not listed above that relates to Family and consumer sciences/human sciences.

Illustrative example(s)

- other family and consumer sciences/human sciences

21. Pre-technology education/pre-industrial arts programs^{CAN}

This series comprises instructional programs that provide individuals with knowledge, learning experiences and competencies pertaining to aspects of industry and technology. The programs are also designed to assist individuals in making informed occupational choices and provide preparation for entry into occupational training or education programs.

21.01 Pre-technology education/pre-industrial arts programs^{CAN}

This subseries comprises instructional program class 21.0101.

21.0101 Pre-technology education/pre-industrial arts programs^{CAN}

This instructional program class comprises any pre-trade program that focuses on technological concepts, processes and systems, such as the evolution, utilization and significance of technology as related to industry, and its organization, personnel, systems, techniques, resources and products. These programs, which are taught at various educational levels, include courses in technological literacy, basic applied science, specific technologies and their applications, and related methods of research and experimentation.

Illustrative example(s)

- introduction to trades
- orientation to trades
- pre-industrial arts programs
- pre-technology education
- pre-trades

Exclusion(s)

- construction trades (See 46.0000-Construction trades, general)
- industrial design (See 50.0404-Industrial and product design)
- machine shop technology (See 48.0503-Machine shop technology/assistant)
- technology education (See 13.1309-Technology teacher education/industrial arts teacher education)

22. Legal professions and studies

This series comprises instructional programs that prepare individuals for the legal profession, for related support professions and professional legal research, and focus on the study of legal issues in non-professional programs.

22.00 Non-professional legal studies

This subseries comprises instructional program classes 22.0000 to 22.0099.

22.0000 Legal studies

This instructional program class comprises any program that focuses on law and legal issues from the perspective of the social sciences and humanities.

Illustrative example(s)

- Juris Master (JM)
- legal studies
- legal studies, Bachelor of Arts
- legal studies, certificate
- legal studies, college diploma
- legal studies, Master of Arts
- Master of Legal Studies

Exclusion(s)

- lawyer (See 22.0101-Law (LLB, JD, BCL))

22.0001 Pre-law studies

This instructional program class comprises any program that prepares individuals for the professional study of law at the post-baccalaureate level.

Illustrative example(s)

- prelaw
- prelaw program
- prelaw studies

22.0099 Non-professional legal studies, other

This instructional program class comprises any program not listed above that relates to Non-professional legal studies.

Illustrative example(s)

- other non-professional legal studies

22.01 Law (LLB, JD, BCL)

This subseries comprises instructional program class 22.0101.

22.0101 Law (LLB, JD, BCL)

This instructional program class comprises any program that prepares individuals for the independent professional practice of common or civil law, for becoming a Quebec notary, for taking bar examinations, and for advanced research in jurisprudence. These programs include courses in the theory and practice of the legal system, including the statutory, administrative, and judicial components of civil and criminal law.

Illustrative example(s)

- Bachelor of Law (LLB)
- bar admission course
- civil law (except graduate level)
- common law (except graduate level)
- criminal law (except graduate level)
- Juris Doctor (JD)
- law (except graduate level)
- law (LLB)
- lawyer
- notary (Quebec)

Exclusion(s)

- business law (graduate level) (See 22.0205-Banking, corporate, finance and securities law (LLM, LLD, JSD/SJD))
- canon law (See 39.0802-Religious/canon law)
- environmental law (graduate level) (See 22.0207-Energy, environment and natural resources law (LLM, MS, MSc, LLD, JSD/SJD))
- information and technology law (graduate level) (See 22.0212-Intellectual property law (LLM, LLD, JSD/SJD))
- international business law (graduate level) (See 22.0210-International business, trade and tax law (LLM, LLD, JSD/SJD))
- international law (graduate level) (See 22.0209-International law and legal studies (LLM, LLD, JSD/SJD))
- international public policy (See 44.0504-International public policy analysis)
- law clerk (See 22.0302-Legal assistant/paralegal)
- legal studies (See 22.0000-Legal studies)
- notary public (See 22.9999-Legal professions and studies, other)
- Talmudic law (See 38.0207-Talmudic studies)

22.02 Legal research and advanced professional studies (post-LLB/JD)

This subseries comprises instructional program classes 22.0201 to 22.0299.

22.0201 Advanced legal research/studies, general (LLM, MCL, MLI, MSL, LLD, JSD/SJD)

This instructional program class comprises any integrated or undifferentiated program in one or more of the legal research or advanced practice fields.

Illustrative example(s)

- advanced legal studies, general (graduate level)
- Doctor of Juridical Science
- Doctor of Law
- Doctor of Laws (LLD)
- Doctor of the Science of Laws
- Legum Doctor (LLD)
- Legum Magister (LLM)
- Master of Law
- Master of Laws (LLM)
- Scientiae Juridicae Doctor (JSD/SJD)

22.0202 Programs for foreign lawyers (LLM, MCL)

This instructional program class comprises any program that prepares lawyers educated outside Canada and the United States to understand Canadian or U.S. law and jurisprudence.

Illustrative example(s)

- foreign lawyer trainee program (graduate level)
- programs for foreign lawyers (graduate level)

22.0203 American/US law/legal studies/jurisprudence (LLM, MCJ, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the U.S. legal system, Constitution law, and jurisprudence. These programs include courses in legal history, legal sociology, philosophy of law, Constitutional law, legal procedure, and related topics.

Illustrative example(s)

- American justice studies (graduate level)
- American law and jurisprudence studies (graduate level)
- US law (graduate level)

22.0204 Canadian law/legal studies/jurisprudence (LLM, MCJ, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the Canadian legal system, Constitution law, and jurisprudence. These programs include courses in legal history, legal sociology, philosophy of law, Constitutional law, Commonwealth law, legal procedure, and related topics.

Illustrative example(s)

- Canadian jurisprudence (graduate level)
- Canadian law (graduate level)
- Canadian legal studies (graduate level)
- constitutional law (graduate level)

22.0205 Banking, corporate, finance and securities law (LLM, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law and process related to the regulation of businesses and the financial services industry. These programs include courses in corporate law, antitrust law, securities laws and regulations, negotiation, incorporation, partnerships, trusts, and related topics.

Illustrative example(s)

- banking law (graduate level)
- business law (graduate level)
- commerce law (graduate level)
- commercial law (graduate level)
- corporate law (graduate level)
- corporation law (graduate level)
- financial law (graduate level)
- regulatory law (graduate level)
- securities law (graduate level)

Exclusion(s)

- business law (except graduate level) (See 22.0101-Law (LLB, JD, BCL))
- finances (See 52.0801-Finance, general)
- international business law (graduate level) (See 22.0210-International business, trade and tax law (LLM, LLD, JSD/SJD))
- investments and securities (See 52.0807-Investment and securities)
- real estate (See 52.1501-Real estate)
- regulatory affairs (See 51.0720-Regulatory science/affairs)

22.0206 Comparative law (LLM, MCL, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of legal systems and philosophies in comparative perspective.

Illustrative example(s)

- comparative law (graduate level)

22.0207 Energy, environment and natural resources law (LLM, MS, MSc, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations governing the energy industry, environmental protection, natural resources and land use, and related topics.

Illustrative example(s)

- energy law (graduate level)
- environmental law (graduate level)
- natural resources law (graduate level)

Exclusion(s)

- environmental law (except graduate level) (See 22.0101-Law (LLB, JD, BCL))
- natural resources law enforcement (See 03.0208-Environmental/natural resources law enforcement and protective services)

22.0208 Health law (LLM, MJ, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law, policies and regulations affecting the health care industry, health professions, health services and insurance industries, and patients.

Illustrative example(s)

- health law (graduate level)
- healthcare compliance law (graduate level)

Exclusion(s)

- compliance law (graduate level) (See 22.0216-Compliance law (JM/MJ, LLM, ML, MSL/MLS, LLD, JSD/SJD, PhD))
- health care administration (See 51.0701-Health/health care administration/management)

- hospital administration (See 51.0702-Hospital and health care facilities administration/management)

22.0209 International law and legal studies (LLM, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law affecting relations between nations, the behaviour of international organizations, and the international activities of private citizens and organizations.

Illustrative example(s)

- international human rights law (graduate level)
- international law (graduate level)
- international legal studies (graduate level)

Exclusion(s)

- international business (See 52.1101-International business/trade/commerce)
- international business law (graduate level) (See 22.0210-International business, trade and tax law (LLM, LLD, JSD/SJD))
- international law (except graduate level) (See 22.0101-Law (LLB, JD, BCL))
- international public policy (See 44.0504-International public policy analysis)
- international relations (See 45.0901-International relations and affairs)

22.0210 International business, trade and tax law (LLM, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations governing transnational business and commercial practices, including the specialized tax law related to international financial transactions.

Illustrative example(s)

- international business law (graduate level)
- international tax law (graduate level)
- international trade law (graduate level)

Exclusion(s)

- commerce law (graduate level) (See 22.0205-Banking, corporate, finance and securities law (LLM, LLD, JSD/SJD))
- international business (See 52.1101-International business/trade/commerce)
- international law (except graduate level) (See 22.0101-Law (LLB, JD, BCL))
- international law (graduate level) (See 22.0209-International law and legal studies (LLM, LLD, JSD/SJD))
- international public policy (See 44.0504-International public policy analysis)
- tax law (graduate level) (See 22.0211-Tax law/taxation (LLM, LLD, JSD/SJD))

22.0211 Tax law/taxation (LLM, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of tax law and taxation procedures in Canadian or U.S. jurisdictions affecting individuals and corporations.

Illustrative example(s)

- tax law (graduate level)

Exclusion(s)

- business law (graduate level) (See 22.0205-Banking, corporate, finance and securities law (LLM, LLD, JSD/SJD))
- international tax law (graduate level) (See 22.0210-International business, trade and tax law (LLM, LLD, JSD/SJD))
- tax law (except graduate level) (See 22.0101-Law (LLB, JD, BCL))
- taxation (See 52.1601-Taxation)

22.0212 Intellectual property law (LLM, LL.D, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations related to copyrights, patents, trademarks, trade secrets, and related issues. These programs include courses in patent law, copyright law, trademark law, intellectual property licensing and litigation, and applications such as art and entertainment law, communications law, information technology law, sports law, and chemical and biotech patent law.

Illustrative example(s)

- information and technology law (graduate level)
- innovation law (graduate level)
- intellectual property law (graduate level)
- technology law (graduate level)

Exclusion(s)

- film law (graduate level) (See 22.0215-Arts and entertainment law (LLM, LL.D, JSD/SJD))
- information and technology law (except graduate level) (See 22.0101-Law (LLB, JD, BCL))
- patent law (graduate level) (See 22.0213-Patent law (LLM, LL.D, JSD/SJD))

22.0213 Patent law (LLM, LL.D, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations affecting patents.

Illustrative example(s)

- patent law (graduate level)
- patent prosecution (graduate level)

Exclusion(s)

- intellectual property law (graduate level) (See 22.0212-Intellectual property law (LLM, LL.D, JSD/SJD))
- patent agent (See 22.9999-Legal professions and studies, other)

22.0214 Agriculture law (JM/MJ, LLM, MA, ML, MSL/MLS, LL.D, JSD/SJD, PhD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations for lawyers and non-legal professionals in food and agriculture.

Illustrative example(s)

- agricultural and food law (graduate level)
- agricultural law (graduate level)
- agriculture and food law (graduate level)
- agriculture law (graduate level)
- global food law (graduate level)
- international food law (graduate level)

Exclusion(s)

- food and drug law (graduate level) (See 22.0299-Legal research and advanced professional studies, other (post-LLB/JD))

22.0215 Arts and entertainment law (LLM, LL.D, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations affecting the sports, fashion, entertainment, arts, and media industries.

Illustrative example(s)

- arts and entertainment law (graduate level)
- entertainment law (graduate level)

- fashion law (graduate level)
- film law (graduate level)
- gaming law and regulation (graduate level)
- sports law (graduate level)

Exclusion(s)

- intellectual property law (graduate level) (See 22.0212-Intellectual property law (LLM, LLD, JSD/SJD))

22.0216 Compliance law (JM/MJ, LLM, ML, MSL/MLS, LLD, JSD/SJD, PhD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations for lawyers and non-legal professionals in compliance, ethics, internal monitoring, regulatory affairs, and related areas.

Illustrative example(s)

- compliance law (graduate level)
- corporate compliance law (graduate level)
- enterprise risk management and compliance law (graduate level)

Exclusion(s)

- healthcare compliance law (graduate level) (See 22.0208-Health law (LLM, MJ, LLD, JSD/SJD))
- payroll compliance practitioner (See 52.1099-Human resources management and services, other)

22.0217 Criminal law and procedure (LLM, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations affecting criminal law and trial procedures.

Illustrative example(s)

- American criminal law (graduate level)
- Canadian criminal law (graduate level)
- criminal law (graduate level)
- criminal law and procedure (graduate level)
- US criminal law (graduate level)

Exclusion(s)

- criminal law (except graduate level) (See 22.0101-Law (LLB, JD, BCL))

22.0218 Entrepreneurship law (LLM, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations affecting entrepreneurship and innovation.

Illustrative example(s)

- entrepreneurship law (graduate level)

Exclusion(s)

- business law (graduate level) (See 22.0205-Banking, corporate, finance and securities law (LLM, LLD, JSD/SJD))

22.0219 Family/child/elder law (LLM, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations affecting domestic relations across the lifespan.

Illustrative example(s)

- child law (graduate level)

- elder law (graduate level)
- family law (graduate level)

22.0220 Human resources law/labour and employment law (LLM, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations affecting human resources.

Illustrative example(s)

- employee benefits law (graduate level)
- human resources law (graduate level)
- labour and employment law (graduate level)
- labour law (graduate level)

22.0221 Insurance law (LLM, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations affecting insurance.

Illustrative example(s)

- insurance law (graduate level)

22.0222 Real estate and land development law (LLM, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations affecting real estate and land development.

Illustrative example(s)

- land development law (graduate level)
- real estate and land development law (graduate level)
- real estate and property law (graduate level)
- real estate law (graduate level)

Exclusion(s)

- conveyancing (See 22.0399-Legal support services, other)
- property law (graduate level) (See 22.0299-Legal research and advanced professional studies, other (post-LLB/JD))
- real estate (See 52.1501-Real estate)
- real estate development (See 04.1001-Real estate development)

22.0223 Transportation law (LLM, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations affecting land, sea, air, and space transportation.

Illustrative example(s)

- Admiralty law (graduate level)
- aviation law (graduate level)
- logistics and transportation law (graduate level)
- marine affairs law (graduate level)
- maritime law (graduate level)
- ocean and coastal law (graduate level)
- space transportation law (graduate level)
- transportation law (graduate level)

Exclusion(s)

- customs broker (See 52.0209-Transportation/mobility management)

- maritime law enforcement (See 43.0122-Maritime law enforcement)
- space law (graduate level) (See 22.0299-Legal research and advanced professional studies, other (post-LLB/JD))

22.0224 Tribal/Indigenous law (LLM, LLD, JSD/SJD)

This instructional program class comprises any advanced, professional study of the law, policies, and regulations affecting US federal Indian law or federal Canadian Aboriginal Law, US tribal law and policy or Canadian Indigenous Law and policy, and Indigenous peoples' human rights.

Illustrative example(s)

- Aboriginal ancestral rights
- Aboriginal land rights
- Aboriginal title
- Aboriginal treaty rights
- Canadian Indigenous Law (graduate level)
- Canadian Tribal Law (graduate level)
- Indigenous hunting and fishing rights
- Indigenous law (graduate level)
- Indigenous peoples rights
- tribal law (graduate level)

22.0299 Legal research and advanced professional studies, other (post-LLB/JD)

This instructional program class comprises any program not listed above that relates to Legal research and advanced professional studies (post-LLB/JD).

Illustrative example(s)

- civil law (graduate level)
- common law (graduate level)
- food and drug law (graduate level)
- legislative drafting (graduate level)
- municipal law (graduate level)
- notarial law (graduate level)
- other legal research and advanced professional studies
- property law (graduate level)
- space and telecommunications law (graduate level)
- space law (graduate level)

Exclusion(s)

- notary (Quebec) (See 22.0101-Law (LLB, JD, BCL))

22.03 Legal support services

This subseries comprises instructional program classes 22.0301 to 22.0399.

22.0301 Legal administrative assistant/secretary

This instructional program class comprises any program that prepares individuals to serve as legal office managers, special assistants, and legal secretaries. These programs include courses in office management, secretarial science, principles of U.S. or Canadian law, legal terminology and documentation, legal research, legal software applications, law office procedures, record keeping, billing, applicable policies and regulations, and professional standards and ethics.

Illustrative example(s)

- legal administration
- legal administrative assistant
- legal administrative secretary

- legal office administration
- legal office procedures
- legal secretarial
- legal secretary
- legal stenography

Exclusion(s)

- court stenography (See 22.0303-Court reporting and captioning/court reporter)
- executive assistant (See 52.0402-Executive assistant/executive secretary)
- secretary (See 52.0401-Administrative assistant and secretarial science, general)

22.0302 Legal assistant/paralegal

This instructional program class comprises any program that prepares individuals to perform research, drafting, investigatory, record keeping and related administrative functions under the supervision of a lawyer or court. These programs include courses in legal research, drafting legal documents, appraising, pleading, courthouse procedures, and legal specializations.

Illustrative example(s)

- law clerk
- legal assistant
- legal technician
- paralegal
- paralegal assistant
- paralegal studies
- paralegalism

Exclusion(s)

- conveyancing (See 22.0399-Legal support services, other)
- lawyer (See 22.0101-Law (LLB, JD, BCL))
- notary public (See 22.9999-Legal professions and studies, other)

22.0303 Court reporting and captioning/court reporter

This instructional program class comprises any program that prepares individuals to record and transcribe examinations, testimony, judicial orders and instructions, legal opinions, and other formal proceedings via print or electronic methods. These programs include courses in legal terminology, legal transcription, shorthand, verbatim recording, equipment operation and procedures, applicable regulations, and professional standards and ethics.

Illustrative example(s)

- court reporter
- court reporting
- court reporting and captioning
- court stenographer
- court stenography

Exclusion(s)

- closed captioning (See 10.0204-Voice writing technology/technician)
- editing court reporter transcripts (See 22.0305-Scopist)
- journalism (See 09.0401-Journalism, general)
- legal secretary (See 22.0301-Legal administrative assistant/secretary)
- scopist (See 22.0305-Scopist)
- stenographer-typist (See 52.0408-General office occupations and clerical services)

22.0304 Court interpreter

This instructional program class comprises any program that prepares individuals to provide accurate translation and interpretation between two or more languages for parties involved in a legal proceeding. These programs include courses in courtroom standards and procedures, court interpreting, legal terminology, consecutive interpretation, simultaneous interpretation, and sight translation.

Illustrative example(s)

- court interpreter
- courtroom interpreting
- legal interpretation and translation

Exclusion(s)

- sign language interpretation (See 16.1603-Sign language interpretation and translation)
- translation and interpretation (See 16.0103-Language interpretation and translation)

22.0305 Scopist

This instructional program class comprises any program that prepares individuals to perform editing and word processing on a court reporter transcript to ensure the accuracy of the transcripts. These programs include courses in legal terminology, legal transcription, machine shorthand, and computer-aided transcription software.

Illustrative example(s)

- editing court reporter transcripts
- scopist

Exclusion(s)

- court reporter (See 22.0303-Court reporting and captioning/court reporter)

22.0399 Legal support services, other

This instructional program class comprises any program not listed above that relates to Legal support services.

Illustrative example(s)

- administrative tribunal agent
- bailiff
- conveyance clerk
- conveyancing
- court and tribunal agent
- court support services
- immigration consultant
- immigration practitioner
- legal support services
- sheriff

Exclusion(s)

- real estate (See 52.1501-Real estate)

22.99 Legal professions and studies, other

This subseries comprises instructional program class 22.9999.

22.9999 Legal professions and studies, other

This instructional program class comprises any program not listed above that relates to Legal professions and studies.

Illustrative example(s)

- legal philosophy
- notary public
- other legal professions and studies
- patent agent
- trademark agent

Exclusion(s)

- church law (See 39.0802-Religious/canon law)
- ethics (See 38.0103-Ethics)
- Jewish law (See 38.0207-Talmudic studies)
- notary (Quebec) (See 22.0101-Law (LLB, JD, BCL))

23. English language and literature/letters

This series comprises instructional programs that focus on the structure and use of the English language and dialects, speech, writing, and various aspects of the literatures and cultures of the English-speaking peoples.

23.01 English language and literature, general

This subseries comprises instructional program class 23.0101.

23.0101 English language and literature, general

This instructional program class comprises any general program that focuses on the English language, including its history, structure and related communications skills; and the literature and culture of English-speaking peoples.

Illustrative example(s)

- English
- English language
- English language and literature
- English language, literature and linguistics
- English studies
- letters, English

Exclusion(s)

- American literature (See 23.1402-American literature)
- Applied linguistics (See 16.0105-Applied linguistics)
- Canadian literature (in English) (See 23.1403-Canadian literature, English)
- English as a second language (See 16.1701-English as a second language)
- English literature (See 23.1401-English literature, general)
- English teacher (See 13.1305-English/English language arts teacher education)
- linguistics (See 16.0102-Linguistics)
- teaching English as a second language (See 13.1401-Teaching English as a second or foreign language/ESL language instructor)

23.13 English rhetoric and composition/writing studies

This subseries comprises instructional program classes 23.1301 to 23.1399.

23.1301 English writing, general

This instructional program class comprises any program that focuses on writing in English for applied and liberal arts purposes. These programs include courses in writing and document design in multiple genres, modes, and media; writing technologies; research, evaluation, and use of information; editing and publishing; theories and processes of composing; rhetorical theories, traditions, and analysis; communication across audiences, contexts, and cultures; and practical applications for professional, technical, organizational, academic, and public settings.

Illustrative example(s)

- English composition
- English writing

Exclusion(s)

- advertising copywriting (See 09.0903-Advertising)
- business communications (See 52.0501-Business/corporate communications, general)
- English creative writing (See 23.1302-English creative writing)
- English rhetoric and writing (See 23.1304-English rhetoric and composition)
- English technical and professional writing (See 23.1303-English professional, technical, business, and scientific writing)
- English writing and literature (See 23.9999-English language and literature/letters, other)
- French writing (See 55.1301-French writing, general)
- journalism (See 09.0401-Journalism, general)
- literacy and communication skills (not for credit) (See 32.0108-Literacy and communication skills (not for credit))
- script writing (See 50.0504-Playwriting and screenwriting)
- writing (See 36.0118-Writing (not for credit))

23.1302 English creative writing

This instructional program class comprises any program in English language and literature that focuses on the process and techniques of original composition in various literary forms such as the short story, poetry, the novel, and others. These programs include courses in technical and editorial skills, criticism, and the marketing of finished manuscripts.

Illustrative example(s)

- English creative fiction writing
- English creative non-fiction
- English creative writing

Exclusion(s)

- comedy writing (See 50.0511-Comedy writing and performance)
- English composition (See 23.1301-English writing, general)
- journalism (See 09.0401-Journalism, general)
- script writing (See 50.0504-Playwriting and screenwriting)
- writing (See 36.0118-Writing (not for credit))

23.1303 English professional, technical, business, and scientific writing

This instructional program class comprises any program in English language and literature that focuses on professional, technical, business, and scientific writing; and that prepares individuals for academic positions or for professional careers as writers, editors, researchers, and related careers in business, government, non-profits, and the professions. These programs include courses in theories of rhetoric, writing, and digital literacy; document design, production, and management; visual rhetoric and multimedia composition; documentation development; usability testing; web writing; and publishing in print and electronic media.

Illustrative example(s)

- English biomedical writing
- English business writing
- English medical writing
- English professional writing
- English scientific writing
- English technical and professional writing
- English technical writing

Exclusion(s)

- business communications (See 52.0501-Business/corporate communications, general)
- English composition (See 23.1301-English writing, general)
- English creative writing (See 23.1302-English creative writing)
- French technical and business writing (See 55.1303-French professional, technical, business, and scientific writing)
- journalism (See 09.0401-Journalism, general)
- sports communication (See 09.0906-Sports communication)
- technical communication (See 09.0908-Technical and scientific communication)
- writing (See 36.0118-Writing (not for credit))

23.1304 English rhetoric and composition

This instructional program class comprises any program in English language and literature that focuses on the humanistic and scientific study of rhetoric, composition, literacy, and language/linguistic theories and their practical and pedagogical applications. These programs include courses in historical and contemporary rhetoric/composition theories; composition and criticism of written, visual, and mixed-media texts; analysis of literacy practices in cultural and cross-cultural contexts; and writing program administration.

Illustrative example(s)

- English rhetoric
- English rhetoric and composition
- English rhetoric and writing
- English rhetoric and writing studies
- English rhetorical studies
- English speech and rhetoric
- English speech and rhetorical studies

Exclusion(s)

- communication sciences (See 09.0100-Communication, general)
- English composition (See 23.1301-English writing, general)
- English language and literature (See 23.0101-English language and literature, general)
- French rhetoric and composition (See 55.1304-French rhetoric and composition^{CAN})
- literacy and communication skills (not for credit) (See 32.0108-Literacy and communication skills (not for credit))
- speech communication (See 09.0101-Speech communication and rhetoric)

23.1399 English rhetoric and composition/writing studies, other

This instructional program class comprises any program in English language and literature not listed above that relates to English rhetoric and composition/writing studies.

Illustrative example(s)

- other English rhetoric and composition/writing studies

Exclusion(s)

- advertising copywriting (See 09.0903-Advertising)
- English creative writing (See 23.1302-English creative writing)
- English rhetoric and composition (See 23.1304-English rhetoric and composition)
- English technical and professional writing (See 23.1303-English professional, technical, business, and scientific writing)
- English writing (See 23.1301-English writing, general)
- French writing (See 55.1301-French writing, general)
- literacy and communication skills (not for credit) (See 32.0108-Literacy and communication skills (not for credit))
- script writing (See 50.0504-Playwriting and screenwriting)

23.14 English literature

This subseries comprises instructional program classes 23.1401 to 23.1499.

23.1401 English literature, general

This instructional program class comprises any program in English language and literature that focuses on literature from one or more genres, cultures or traditions. These programs include courses in period and genre studies, author studies, literary criticism, and studies of various types of literary text.

Illustrative example(s)

- English general literature
- English literary studies
- English literature

Exclusion(s)

- classical literature (See 16.1200-Classics and classical languages, literatures and linguistics, general)
- comparative literature (See 16.0104-Comparative literature)
- English language, literature and linguistics (See 23.0101-English language and literature, general)
- English literature education (See 13.1305-English/English language arts teacher education)
- foreign literature (See 16.0101-Indigenous and foreign languages and literatures, general)
- French general literature (See 55.1401-French literature, general)
- humanities, art and literature (See 24.0103-Humanities/humanistic studies)
- theatre literature (See 50.0505-Theatre literature, history and criticism)

23.1402 American literature

This instructional program class comprises any program that focuses on the literature and literary development, both formal and folkloric, of the United States from the colonial era to the present. These programs include courses in period and genre studies, author studies, literary criticism, and regional and oral traditions.

Illustrative example(s)

- American literature

Exclusion(s)

- Canadian literature (in English) (See 23.1403-Canadian literature, English)
- comparative literature (See 16.0104-Comparative literature)
- English literature (See 23.1401-English literature, general)

23.1403 Canadian literature, English

This instructional program class comprises any program in English language and literature that focuses on the literature and literary development, both formal and folkloric, of Canada from its origins to the present. These programs include courses in period and genre studies, author studies, literary criticism, and regional and oral traditions.

Illustrative example(s)

- Canadian literature (in English)

Exclusion(s)

- American literature (See 23.1402-American literature)
- Canadian literature (in French) (See 55.1403-Canadian literature, French)
- comparative literature (See 16.0104-Comparative literature)
- English literature (See 23.1401-English literature, general)

23.1404 British and Commonwealth literature, English

This instructional program class comprises any program that focuses on the literatures and literary developments of the English-speaking peoples of the British Isles and the British Commonwealth, from the origins of the English language to the present. These programs include courses in period and genre studies, author studies, country and regional specializations, literary criticism, and the study of folkloric traditions.

Illustrative example(s)

- British literature
- Commonwealth literature (in English)
- Irish English literature
- Scottish English literature

Exclusion(s)

- American literature (See 23.1402-American literature)
- Canadian literature (in English) (See 23.1403-Canadian literature, English)
- comparative literature (See 16.0104-Comparative literature)

23.1405 Children’s and adolescent literature, English

This instructional program class comprises any program in English language and literature that focuses on the scholarly study of children’s and adolescent literature and that may enhance the professional work of teachers, librarians, publishers, booksellers, and creative writers. These programs include courses in period and genre studies, author studies, literary criticism, studies of various types of literary text, book artists, and children’s films.

Illustrative example(s)

- English adolescent literature
- English children’s literature
- English literature for children and young adults

Exclusion(s)

- youth library services (See 25.0102-Children and youth library services)

23.1499 English literature, other

This instructional program class comprises any program in English language and literature not listed above that relates to English literature.

Illustrative example(s)

- other English literature

Exclusion(s)

- classical literature (See 16.1200-Classics and classical languages, literatures and linguistics, general)
- comparative literature (See 16.0104-Comparative literature)
- foreign literature (See 16.0101-Indigenous and foreign languages and literatures, general)
- humanities, art and literature (See 24.0103-Humanities/humanistic studies)
- theatre literature (See 50.0505-Theatre literature, history and criticism)

23.99 English language and literature/letters, other

This subseries comprises instructional program class 23.9999.

23.9999 English language and literature/letters, other

This instructional program class comprises any program in English language and literature not listed above that relates to English language and literature/letters.

Illustrative example(s)

- English writing and literature
- other English language and literature/letters

Exclusion(s)

- English writing (See 23.1301-English writing, general)

24. Liberal arts and sciences, general studies and humanities

This series comprises general instructional programs and independent or individualized studies in the liberal arts subjects, the humanities disciplines and the general curriculum.

24.01 Liberal arts and sciences, general studies and humanities

This subseries comprises instructional program classes 24.0101 to 24.0199.

24.0101 Liberal arts and sciences/liberal studies

This instructional program class comprises any program that is a structured combination of the arts, biological and physical sciences, social sciences, and humanities, emphasizing breadth of study. Includes independently designed, individualized, or regular programs.

Illustrative example(s)

- independent studies
- individualized studies
- liberal arts
- liberal arts and sciences
- liberal science
- liberal studies

Exclusion(s)

- art studies (See 50.0701-Art/art studies, general)
- arts and science (See 24.0102-General studies)
- biological and physical sciences (See 30.0101-Biological and physical sciences)
- family science (See 19.0101-Family and consumer sciences/human sciences, general)
- high school individual educational program certificate (See 53.0203-Certificate of IEP completion programs)
- humanities (See 24.0103-Humanities/humanistic studies)

24.0102 General studies

This instructional program class comprises any undifferentiated program in the general arts, or unstructured studies.

Illustrative example(s)

- arts and science
- general arts
- general arts and science
- general studies

Exclusion(s)

- art studies (See 50.0701-Art/art studies, general)
- general science (See 30.0101-Biological and physical sciences)
- humanities (See 24.0103-Humanities/humanistic studies)
- liberal arts and sciences (See 24.0101-Liberal arts and sciences/liberal studies)
- physical sciences (See 40.0101-Physical sciences, general)

24.0103 Humanities/humanistic studies

This instructional program class comprises any program that focuses on combined studies and research in the humanities subjects as distinguished from the social and physical sciences, emphasizing languages, literatures, art, music, philosophy and religion.

Illustrative example(s)

- general humanities
- humanistic studies
- humanities

Exclusion(s)

- applied human sciences (See 19.0101-Family and consumer sciences/human sciences, general)
- English literature (See 23.1401-English literature, general)
- French general literature (See 55.1401-French literature, general)
- general studies (See 24.0102-General studies)
- liberal arts and sciences (See 24.0101-Liberal arts and sciences/liberal studies)
- medical humanities (See 51.3204-Medical/health humanities)

24.0199 Liberal arts and sciences, general studies and humanities, other

This instructional program class comprises any program not listed above that relates to Liberal arts and sciences, general studies and humanities.

Illustrative example(s)

- other liberal arts and sciences, general studies and humanities

25. Library science

This series comprises instructional programs that focus on the knowledge and skills required for managing and/or maintaining libraries and related information and record systems, collections and facilities for research and general use.

25.01 Library science and administration

This subseries comprises instructional program classes 25.0101 to 25.0199.

25.0101 Library and information science

This instructional program class comprises any program that focuses on the knowledge and skills required to develop, organize, store, retrieve, administer, and facilitate the use of local, remote, and networked collections of information in print, audiovisual, and electronic formats and that prepares individuals for professional service as librarians and information consultants.

Illustrative example(s)

- librarianship
- library and information science
- library management
- library science
- library studies

Exclusion(s)

- information resources management (See 52.1206-Information resources management)
- information science (See 11.0401-Information science/studies)
- information technology (See 11.0103-Information technology)
- library technician (See 25.0301-Library and archives assisting)
- records management (See 25.0103-Archives/archival administration)
- school librarian (See 13.1334-School librarian/school library media specialist)

25.0102 Children and youth library services

This instructional program class comprises any program that prepares individuals to provide library and information services and programming for children and young adults. These programs include courses in information needs of children and young adults, resources and services for children and young adults, literature for youth, storytelling, multi-ethnic materials, library management, and information technology for librarians.

Illustrative example(s)

- children's library services
- young adult library services
- youth library services

Exclusion(s)

- English literature for children and young adults (See 23.1405-Children's and adolescent literature, English)
- French literature for children and young adults (See 55.1405-Children's and adolescent literature, French)

25.0103 Archives/archival administration

This instructional program class comprises any program that prepares individuals to identify, manage, preserve, and make available records with long-term value for documentation, legal, research, and other purposes. These programs include courses in appraisal and collection development, information and records management, archival preservation, access systems, management of electronic records, archival outreach, and legal and ethical issues.

Illustrative example(s)

- archival administration
- archival administration and records management
- archival management
- archival studies
- archives
- archives records management
- archivist
- records and information management
- records management

Exclusion(s)

- archival and library science (See 25.0199-Library science and administration, other)
- archival technician (See 25.0301-Library and archives assisting)
- law enforcement record keeping and evidence management (See 43.0115-Law enforcement record keeping and evidence management)
- medical archive management (See 51.0706-Health information/medical records administration/administrator)
- medical archives technology (See 51.0707-Health information/medical records technology/technician)
- public history (See 54.0105-Public/applied history)

25.0199 Library science and administration, other

This instructional program class comprises any program not listed above that relates to Library science and administration.

Illustrative example(s)

- archival and library science
- other library science and administration

Exclusion(s)

- archival studies (See 25.0103-Archives/archival administration)

25.03 Library and archives assisting

This subseries comprises instructional program class 25.0301.

25.0301 Library and archives assisting

This instructional program class comprises any program that prepares individuals to assist professional librarians and archivists. These programs include courses in principles, systems, processes, and procedures of library and archive operation; library resources and services; processes of acquisition, cataloguing, storage, and display systems; discovery and retrieval of requested materials; management of books, periodicals, and other documents and records.

Illustrative example(s)

- archives assistant
- archives technician
- library aide
- library and information technician
- library and information technology
- library assistant
- library clerk
- library technician
- library techniques
- library technology

Exclusion(s)

- information technology (See 11.0103-Information technology)
- library and information science (See 25.0101-Library and information science)
- public history (See 54.0105-Public/applied history)
- records management (See 25.0103-Archives/archival administration)
- school librarian (See 13.1334-School librarian/school library media specialist)

25.99 Library science, other

This subseries comprises instructional program class 25.9999.

25.9999 Library science, other

This instructional program class comprises any program not listed above that relates to Library science.

Illustrative example(s)

- other library science

26. Biological and biomedical sciences

This series comprises instructional programs that focus on the biological sciences and the non-clinical biomedical sciences, and that prepare individuals for research and professional careers as biologists and biomedical scientists.

26.01 Biology, general

This subseries comprises instructional program classes 26.0101 and 26.0102.

26.0101 Biology/biological sciences, general

This instructional program class comprises any general program of biology at the introductory, basic level or a program in biology or the biological sciences that is undifferentiated as to title or content. These programs include courses in general biology and programs covering a variety of biological specializations.

Illustrative example(s)

- applied biology
- biological sciences
- biology
- bioscience
- life sciences

Exclusion(s)

- biological engineering (See 14.4501-Biological/biosystems engineering)
- biology technician (See 41.0101-Biology and biotechnology technologies/technicians)
- biopsychology (See 30.1001-Biopsychology)
- cellular and molecular biology (See 26.0406-Cell/cellular and molecular biology)
- human biology (See 30.2701-Human biology)
- medical biology (See 26.0102-Biomedical sciences, general)
- microbiology (See 26.0502-Microbiology, general)

26.0102 Biomedical sciences, general

This instructional program class comprises any general program that focuses on the integrative scientific study of biological issues related to health and medicine, or a program in one or more of the biomedical sciences that is undifferentiated as to title. These programs include courses in any of the basic medical sciences at the research level; biological science research in biomedical faculties; and general studies encompassing a variety of the biomedical disciplines.

Illustrative example(s)

- biomedical science
- medical biology

Exclusion(s)

- biological and physical sciences (See 30.0101-Biological and physical sciences)
- biology (See 26.0101-Biology/biological sciences, general)
- biomedical engineering (See 14.0501-Biomedical/medical engineering)
- biomedical engineering technology (See 15.0401-Biomedical technology/technician)
- human biology (See 30.2701-Human biology)

26.02 Biochemistry/biophysics and molecular biology

This subseries comprises instructional program classes 26.0202 to 26.0299.

26.0202 Biochemistry

This instructional program class comprises any program that focuses on the scientific study of the chemistry of living systems, their fundamental chemical substances and reactions, and their chemical pathways and information transfer systems, with particular reference to carbohydrates, proteins, lipids, and nucleic acids. These programs include courses in bio-organic chemistry, protein chemistry, bioanalytical chemistry, bioseparations, regulatory biochemistry, enzymology, hormonal chemistry, calorimetry, and research methods and equipment operation.

Illustrative example(s)

- biochemistry
- biological chemistry

Exclusion(s)

- biochemical engineering (See 14.4301-Biochemical engineering)
- biochemistry and molecular biology (See 26.0210-Biochemistry and molecular biology)
- biological engineering (See 14.4501-Biological/biosystems engineering)

- chemical engineering (See 14.0701-Chemical engineering)
- chemistry (See 40.0501-Chemistry, general)
- molecular biochemistry (See 26.0205-Molecular biochemistry)

26.0203 Biophysics

This instructional program class comprises any program that focuses on the application of physics principles to the scientific study of the mechanisms of biological processes and assemblies at all levels of complexity. These programs include courses in research methods and equipment operation and applications to subjects such as bioenergetics, biophysical theory and modelling, electrophysics, membrane biology, channels, receptors and transporters, contractility and muscle function, protein shaping and folding, molecular and supramolecular structures and assemblies, and computational science.

Illustrative example(s)

- biophysics

Exclusion(s)

- biochemistry and molecular biology (See 26.0210-Biochemistry and molecular biology)
- biological and physical sciences (See 30.0101-Biological and physical sciences)
- medical physics (See 51.2205-Health/medical physics)
- molecular biophysics (See 26.0206-Molecular biophysics)
- physics (See 40.0801-Physics, general)

26.0204 Molecular biology

This instructional program class comprises any program that focuses on the scientific study of the structure and function of biological macromolecules and the role of molecular constituents and mechanisms in supramolecular assemblies and cells. These programs include courses in such topics as molecular signalling and transduction, regulation of cell growth, enzyme substrates and mechanisms of enzyme action, DNA-protein interaction, and applications to fields such as biotechnology, genetics, cell biology, and physiology.

Illustrative example(s)

- molecular biology

Exclusion(s)

- biochemistry and molecular biology (See 26.0210-Biochemistry and molecular biology)
- cellular and molecular biology (See 26.0406-Cell/cellular and molecular biology)
- molecular medicine (See 26.1401-Molecular medicine)
- plant molecular biology (See 26.0308-Plant molecular biology)

26.0205 Molecular biochemistry

This instructional program class comprises any program that focuses on the scientific relationship of physiological function to the structure and actions of macromolecules and supramolecular assemblies such as multienzyme complexes, membranes, and viruses. These programs include courses in the chemical mechanisms of regulation and catalysis, protein synthesis and other syntheses, and biomolecular chemical reactions.

Illustrative example(s)

- molecular biochemistry

Exclusion(s)

- biochemical engineering (See 14.4301-Biochemical engineering)
- biological and physical sciences (See 30.0101-Biological and physical sciences)
- molecular biology (See 26.0204-Molecular biology)

26.0206 Molecular biophysics

This instructional program class comprises any scientific program that focuses on the dynamics and interactions of macromolecules and other three-dimensional ultrastructures, the architecture of supramolecular structures, and energy transfer in biomolecular systems. These programs include courses in energy transduction, structural dynamics, mechanisms of electron and proton transfer in biological systems, bioinformatics, automated analysis, and specialized research techniques.

Illustrative example(s)

- molecular biophysics

Exclusion(s)

- biochemistry and molecular biology (See 26.0210-Biochemistry and molecular biology)
- biophysics (See 26.0203-Biophysics)
- medical physics (See 51.2205-Health/medical physics)

26.0207 Structural biology

This instructional program class comprises any program that focuses on the scientific study of submolecular and molecular components and assemblies of living systems and how they are organized into functional units such as cells and anatomic tissues. These programs include courses in glycoprotein, carbohydrate, protein, and nucleic acid structures and chemistry; cytoskeletal structure; nuclear and intracellular structures; molecular recognition; molecular chaperones; transcription and folding; multicellular organization; microtubules and microfilaments; cell differentiation; immunophysics; and DNA sequencing.

Illustrative example(s)

- structural biology

Exclusion(s)

- biology (See 26.0101-Biology/biological sciences, general)
- cell biology and anatomy (See 26.0407-Cell biology and anatomy)
- cellular and molecular biology (See 26.0406-Cell/cellular and molecular biology)
- medical biology (See 26.0102-Biomedical sciences, general)
- molecular biology (See 26.0204-Molecular biology)

26.0208 Photobiology

This instructional program class comprises any program that focuses on the scientific study of the effects of light energy on living organisms, the manufacture and processing of luminescence by organisms, and the uses of light in biological research. These programs include courses in bioluminescence, chronobiology, photomedicine, environmental photobiology, organic photochemistry, photomorphogenesis, photoreceptors and photosensitization, molecular mechanics of photosynthesis, phototechnology, vision, ultraviolet radiation, radiation physics, and spectral research methods.

Illustrative example(s)

- photobiology

Exclusion(s)

- biological and physical sciences (See 30.0101-Biological and physical sciences)
- biology (See 26.0101-Biology/biological sciences, general)

26.0209 Radiation biology/radiobiology

This instructional program class comprises any program that focuses on the effects of radiation on organisms and biological systems. These programs include courses in particle physics, ionization, and biophysics of radiation perturbations, cellular and organismic repair systems, genetic and pathological effects of radiation, and the measurement of radiation dosages.

Illustrative example(s)

- radiation biology
- radiobiology

Exclusion(s)

- biological and physical sciences (See 30.0101-Biological and physical sciences)
- biology (See 26.0101-Biology/biological sciences, general)
- diagnostic radiology - residency (See 61.2601-Diagnostic radiology residency programs)
- medical radiation technologist (See 51.0911-Medical radiation technologist/radiographer)
- photobiology (See 26.0208-Photobiology)

26.0210 Biochemistry and molecular biology

This instructional program class comprises any program that combines the biological subdisciplines of biochemistry and molecular biology. These programs include courses in general biology, general and organic chemistry, physics, biochemistry, molecular biology, immunology, microbiology, genetics, and cellular biology.

Illustrative example(s)

- biochemistry and molecular biology
- combined biochemistry and molecular biology

Exclusion(s)

- biochemistry (See 26.0202-Biochemistry)
- biophysics (See 26.0203-Biophysics)
- molecular biology (See 26.0204-Molecular biology)

26.0299 Biochemistry/biophysics and molecular biology, other

This instructional program class comprises any program not listed above that relates to Biochemistry/biophysics and molecular biology.

Illustrative example(s)

- comparative biochemistry
- medical biochemistry
- other biochemistry/biophysics and molecular biology

26.03 Botany/plant biology

This subseries comprises instructional program classes 26.0301 to 26.0399.

26.0301 Botany/plant biology, general

This instructional program class comprises any program that focuses on the scientific study of plants, related microbial organisms, and plant habitats and ecosystem relations. These programs include courses in plant anatomy and structure, phytochemistry, cytology, plant genetics, plant morphology and physiology, plant ecology, plant taxonomy and systematics, paleobotany, and applications of biophysics and molecular biology.

Illustrative example(s)

- botany
- phytochemistry
- phytology
- plant biology

Exclusion(s)

- horticultural science (See 01.1103-Horticultural science)
- mycology (See 26.0506-Mycology)
- phycology (See 26.0399-Botany/plant biology, other)

- plant breeding (See 01.1104-Agricultural and horticultural plant breeding)
- plant genetics (See 26.0805-Plant genetics)
- plant sciences (See 01.1101-Plant sciences, general)

26.0305 Plant pathology/phytopathology

This instructional program class comprises any program that focuses on the scientific study of plant diseases and plant health, and the development of disease control mechanisms. These programs include courses in plant anatomy and physiology; pathogenesis; molecular plant virology; molecular genetics; bacterial epidemiology; causal agent identification; host/agent interactions; disease resistance and response mechanisms; developing plant disease treatments; disease prevention; and disease physiology and control.

Illustrative example(s)

- phytopathology
- plant pathology

Exclusion(s)

- plant physiology (See 26.0307-Plant physiology)
- plant protection (See 01.1105-Plant protection and integrated pest management)
- plant sciences (See 01.1101-Plant sciences, general)

26.0307 Plant physiology

This instructional program class comprises any program that focuses on the scientific study of plant internal dynamics and systems, plant-environment interaction, and plant life cycles and processes. These programs include courses in cell and molecular biology; plant nutrition; plant respiration; plant growth, behaviour, and reproduction; photosynthesis; plant systemics; and ecology.

Illustrative example(s)

- plant physiology

Exclusion(s)

- cell physiology (See 26.0903-Cell physiology)
- physiology (See 26.0901-Physiology, general)
- phytopathology (See 26.0305-Plant pathology/phytopathology)
- plant sciences (See 01.1101-Plant sciences, general)

26.0308 Plant molecular biology

This instructional program class comprises any program that focuses on the application of molecular biology, biochemistry, and biophysics to the study of biomolecular structures, functions, and processes specific to plants and plant substances. These programs include courses in the biochemistry of plant cells, nuclear-cytoplasmic interactions, molecular cytostructures, photosynthesis, plant molecular genetics, and the molecular biology of plant diseases.

Illustrative example(s)

- plant molecular biology

Exclusion(s)

- botany (See 26.0301-Botany/plant biology, general)
- molecular biology (See 26.0204-Molecular biology)
- plant sciences (See 01.1101-Plant sciences, general)

26.0399 Botany/plant biology, other

This instructional program class comprises any program not listed above that relates to Botany/plant biology.

Illustrative example(s)

- other botany/plant biology
- phycology

Exclusion(s)

- botany (See 26.0301-Botany/plant biology, general)
- plant sciences (See 01.1101-Plant sciences, general)

26.04 Cell/cellular biology and anatomical sciences

This subseries comprises instructional program classes 26.0401 to 26.0499.

26.0401 Cell/cellular biology and histology

This instructional program class comprises any program that focuses on the scientific study of the structure, function, and regulation of cells as individual units and as components of larger systems. These programs include courses in cell chemistry, cellular dynamics, cellular replication and reproduction, cell anatomy, membrane function, organelles, cell adhesion and extracellular matrices, cell dynamics and motility, meiosis and mitosis, signal transduction, regulation, recognition and defence mechanisms, the cell cycle, cell metabolism and respiration, gene expression, and studies of cell types and characteristics.

Illustrative example(s)

- cell biology
- cell biology and histology
- cellular biology
- cytology
- histology

Exclusion(s)

- cell biology and anatomy (See 26.0407-Cell biology and anatomy)
- cellular and molecular biology (See 26.0406-Cell/cellular and molecular biology)
- cytotechnology (See 51.1002-Cytotechnology/cytotechnologist)
- histologic technician (See 51.1008-Histologic technician)
- histologic technologist (See 51.1007-Histologic technology/histotechnologist)

26.0403 Anatomy

This instructional program class comprises any program that focuses on the scientific study of organ systems, tissue structures, and whole bodies together with their cellular and structural components and dynamics. These programs include courses in cell biology and histology, structural biology, molecular mechanics, regional and gross anatomy, embryology, neuroanatomy, endocrinology and secretory dynamics, and applications to such topics as aging and disease conditions.

Illustrative example(s)

- anatomy

Exclusion(s)

- cell biology and anatomy (See 26.0407-Cell biology and anatomy)
- neuroanatomy (See 26.1502-Neuroanatomy)

26.0404 Developmental biology and embryology

This instructional program class comprises any program that focuses on the scientific study of embryology, development, and growth of animals and human beings. These programs include courses in fertilization, oogenesis, histogenesis, gastrulation, and cell differentiation; embryological development including organ and pattern formation, morphogenesis, gene regulation, cell lineage, and fate maps; disease and defect studies;

transgenic and evolutionary models of growth and development; and applications to specific organisms and phyla.

Illustrative example(s)

- developmental biology
- embryology

Exclusion(s)

- cellular biology (See 26.0401-Cell/cellular biology and histology)
- child development (See 19.0706-Child development)
- genetics (See 26.0801-Genetics, general)
- human biology (See 30.2701-Human biology)
- human genetics (See 26.0806-Human/medical genetics)

26.0406 Cell/cellular and molecular biology

This instructional program class comprises any integrated, combined program that focuses on the scientific study of cells, cellular systems, and the molecular basis of cell structure and function. These programs include courses in cell biology, cell chemistry, molecular biology, biophysics, and structural biology.

Illustrative example(s)

- cell and molecular biology
- cell biology and molecular biology
- cellular and molecular biology

Exclusion(s)

- cellular biology (See 26.0401-Cell/cellular biology and histology)
- molecular biology (See 26.0204-Molecular biology)
- molecular medicine (See 26.1401-Molecular medicine)

26.0407 Cell biology and anatomy

This instructional program class comprises any integrated, combined program that focuses on the scientific study of cell structure, function, and dynamics within the context of organismic, regional, and gross anatomical systems. These programs include courses in molecular biology, cell biology and histology, structural biology, anatomy, embryology, endocrinology, and applications to specific systems, diseases, defects, and processes.

Illustrative example(s)

- cell biology and anatomy

Exclusion(s)

- anatomy (See 26.0403-Anatomy)
- cellular biology (See 26.0401-Cell/cellular biology and histology)
- molecular biology (See 26.0204-Molecular biology)

26.0499 Cell/cellular biology and anatomical sciences, other

This instructional program class comprises any program not listed above that relates to Cell/cellular biology and anatomical sciences.

Illustrative example(s)

- cell and developmental biology
- other cell/cellular biology and anatomical sciences

26.05 Microbiological sciences and immunology

This subseries comprises instructional program classes 26.0502 to 26.0599.

26.0502 Microbiology, general

This instructional program class comprises any program that focuses on the scientific study of unicellular organisms and colonies, and subcellular genetic matter and their ecological interactions with human beings and other life. These programs include courses in microbial genetics, cell biology, cell physiology, virology, pathogenic microbiology, environmental microbiology, immunology, biostatistics, bioinformatics, and laboratory methods including microscopy.

Illustrative example(s)

- microbiology

Exclusion(s)

- medical microbiology - fellowship (See 61.1811-Medical microbiology fellowship programs)
- medical microbiology (See 26.0503-Medical microbiology and bacteriology)
- microbiology and immunology (See 26.0508-Microbiology and immunology)
- soil microbiology (See 01.1203-Soil microbiology)
- veterinary microbiology and immunobiology (Cert., MS, MSc, PhD) (See 01.8107-Veterinary microbiology and immunobiology (Cert., MS, MSc, PhD))

26.0503 Medical microbiology and bacteriology

This instructional program class comprises any program that focuses on the scientific study of pathogenic bacteria that are significant factors in causing or facilitating human disease. These programs include courses in the pathogenesis of bacterial diseases, bacterial genetics and physiology, bacterial anatomy and structure, antigens, bacterial reproduction, bacterial adhesion, phagocytes, and the identification of new or mutated bacteria and bacterial agents.

Illustrative example(s)

- bacteriology
- medical microbiology
- medical microbiology and bacteriology

Exclusion(s)

- medical microbiology - fellowship (See 61.1811-Medical microbiology fellowship programs)
- medical microbiology and immunology (See 26.0508-Microbiology and immunology)
- microbial and eukaryotic genetics (See 26.0803-Microbial and eukaryotic genetics)
- microbiology (See 26.0502-Microbiology, general)
- microbiology and immunology (See 26.0508-Microbiology and immunology)

26.0504 Virology

This instructional program class comprises any program that focuses on the scientific study of subcellular pieces of genetic material, called viruses, that inhabit living cells in parasitical relationships and their role in disease. These programs include courses in virus taxonomy and systematics, viral structures, viral genetics, prions, virus/host cell interaction, viral pathogenesis, and applications to specific topics such as cancer biology.

Illustrative example(s)

- virology

Exclusion(s)

- computer systems security (See 11.1003-Computer and information systems security/auditing/information assurance)
- medical microbiology (See 26.0503-Medical microbiology and bacteriology)
- microbiology and immunology (See 26.0508-Microbiology and immunology)

26.0505 Parasitology

This instructional program class comprises any program that focuses on the scientific study of biological organisms living in ecologically exploitative and competitive relationships with host organisms, and the role of parasites in causing injury, disease, and environmental damage. These programs include courses in vector biology, immunoparasitology, medical parasitology, molecular biology of parasitological associations, veterinary and comparative parasitology, chemotherapeutics, and ecological and systematic parasitology.

Illustrative example(s)

- parasitology

Exclusion(s)

- microbiology and immunology (See 26.0508-Microbiology and immunology)
- plant protection (See 01.1105-Plant protection and integrated pest management)
- virology (See 26.0504-Virology)

26.0506 Mycology

This instructional program class comprises any program that focuses on the scientific study of fungi, lichenous plants, eukaryotic microorganisms, myxomycetes, and plasmodiophorales and their relationship to diseases in higher plants, animals, and human beings as well as to pharmacologically useful products. These programs include courses in cell and molecular biology; histopathology; fungal growth and behaviour; environmental mycology; antifungal sensitivity; mycoses; pathogens and pathogenesis; pharmacological properties; and computer and laboratory research methods.

Illustrative example(s)

- mycology

Exclusion(s)

- microbiology (See 26.0502-Microbiology, general)
- plant protection (See 01.1105-Plant protection and integrated pest management)

26.0507 Immunology

This instructional program class comprises any program that focuses on scientific study of the biological mechanisms involved in the pathogenesis of disease, host-pathogen interactions, and host response to disease. These programs include courses in antigen and antibody structure and function, effector mechanisms, receptors, histocompatibility, host-pathogen recognition, disease modelling, autoimmune systems, antibody formation, cytotoxic responses, regulation of immune response, virulence determinants, intercellular signalling, immunosuppression, immunotherapy, immunogenetics, disease markers, transplantation, antibody humanization, and microbial pathogenesis.

Illustrative example(s)

- immunology

Exclusion(s)

- immunopathology - fellowship (See 61.1809-Immunopathology fellowship programs)
- microbiology (See 26.0502-Microbiology, general)
- microbiology and immunology (See 26.0508-Microbiology and immunology)
- parasitology (See 26.0505-Parasitology)
- virology (See 26.0504-Virology)

26.0508 Microbiology and immunology

This instructional program class comprises any program that focuses on the scientific study of the microorganisms that cause disease and the host immune response to them. These programs include courses in

microbiology, microbial genetics, molecular virology, pathogenic bacteriology, disease mechanisms, immunology, immunogenetics, autoimmunity, and bioinformatics.

Illustrative example(s)

- combined microbiology and immunology
- medical microbiology and immunology
- microbiology and immunology

Exclusion(s)

- immunology (See 26.0507-Immunology)
- immunopathology - fellowship (See 61.1809-Immunopathology fellowship programs)
- medical microbiology (See 26.0503-Medical microbiology and bacteriology)
- medical microbiology and bacteriology (See 26.0503-Medical microbiology and bacteriology)
- microbiology (See 26.0502-Microbiology, general)
- parasitology (See 26.0505-Parasitology)
- veterinary microbiology and immunobiology (Cert., MS, MSc, PhD) (See 01.8107-Veterinary microbiology and immunobiology (Cert., MS, MSc, PhD))
- virology (See 26.0504-Virology)

26.0509 Infectious disease and global health

This instructional program class comprises any program that focuses on the biological, social, and behavioural factors contributing to the cause and spread of infectious diseases. These programs include courses in research design and evaluation, infectious disease epidemiology, international health policy and management, microbiology, microbial genetics, molecular virology, disease mechanisms, antimicrobial resistance, immunology, and bioterrorism.

Illustrative example(s)

- global health and infectious disease
- infectious disease and global health

26.0599 Microbiological sciences and immunology, other

This instructional program class comprises any program not listed above that relates to Microbiological sciences and immunology.

Illustrative example(s)

- applied microbiology
- industrial microbiology
- infectious disease and immunology
- infectious disease and medical microbiology
- infectious disease and microbiology
- other microbiological sciences and immunology

26.07 Zoology/animal biology

This subseries comprises instructional program classes 26.0701 to 26.0799.

26.0701 Zoology/animal biology, general

This instructional program class comprises any general program that focuses on the scientific study of the biology of animal species and phyla, with reference to their molecular and cellular systems, anatomy, physiology, and behaviour. These programs include courses in molecular and cell biology, microbiology, anatomy and physiology, ecology and behaviour, evolutionary biology, and applications to specific species and phyla.

Illustrative example(s)

- animal biology
- zoology

Exclusion(s)

- animal breeding (See 01.0902-Agricultural animal breeding)
- animal health (See 01.0903-Animal health)
- animal sciences (See 01.0901-Animal sciences, general)
- anthrozoology (See 30.3401-Anthrozoology)
- human biology (See 30.2701-Human biology)
- wildlife biology (See 26.0709-Wildlife biology)
- zoological medicine - residency (See 60.0317-Zoological medicine residency programs)

26.0702 Entomology

This instructional program class comprises any program that focuses on the scientific study of insect species and populations in respect of their life cycles, morphology, genetics, physiology, ecology, taxonomy, population dynamics, and environmental and economic impacts. These programs include courses in applicable biological and physical sciences as well as insect toxicology and the biochemical control of insect populations.

Illustrative example(s)

- entomology

Exclusion(s)

- ecology (See 26.1301-Ecology)
- plant protection (See 01.1105-Plant protection and integrated pest management)

26.0707 Animal physiology

This instructional program class comprises any program that focuses on the scientific study of function, morphology, regulation, and intercellular communications and dynamics within vertebrate and invertebrate in animal species, with comparative applications to homo sapiens and its relatives and antecedents. These programs include courses in reproduction, growth, lactation, digestion, performance, behavioural adaptation, sensory perception, motor action, phylogenetics, biotic and abiotic function, membrane biology, and related aspects of biochemistry and biophysics.

Illustrative example(s)

- animal physiology

Exclusion(s)

- animal sciences (See 01.0901-Animal sciences, general)
- cell physiology (See 26.0903-Cell physiology)
- exercise physiology (See 26.0908-Exercise physiology)
- molecular physiology (See 26.0902-Molecular physiology)
- physiology (See 26.0901-Physiology, general)
- reproductive physiology (See 26.0905-Reproductive biology)
- veterinary physiology (Cert., MS, MSc., PhD) (See 01.8109-Veterinary physiology (Cert., MS, MSc, PhD))

26.0708 Animal behaviour and ethology

This instructional program class comprises any program that focuses on the scientific study of the psychological and neurological bases of animal sensation, perception, cognition, behaviour, and behavioural interactions within and outside the species. These programs include courses in ethology, behavioural neuroscience, neurobiology, behavioural evolution, cognition and sensory perception, motivators, learning and instinct, hormonal controls, reproductive and developmental biology, community ecology, functional behaviour, and applications to specific behaviours and patterns as well as to specific phyla and species.

Illustrative example(s)

- animal behaviour
- ethology

Exclusion(s)

- animal sciences (See 01.0901-Animal sciences, general)
- animal training (See 01.0505-Animal training)
- behavioural science (See 30.1701-Behavioural sciences)
- veterinary behaviourist - residency (See 60.0319-Veterinary behaviourist residency programs)

26.0709 Wildlife biology

This instructional program class comprises any program that focuses on the application of biological principles to the study of vertebrate wildlife, wildlife habitats, and related ecosystems in remote and urban areas. These programs include courses in animal ecology; adaptational biology; urban ecosystems; natural and artificial habitat management; limnology; wildlife pathology; and vertebrate zoological specializations such as mammalogy, herpetology, ichthyology, ornithology, and others.

Illustrative example(s)

- fish and wildlife biology
- wildlife biology

Exclusion(s)

- animal biology (See 26.0701-Zoology/animal biology, general)
- marine biology (See 26.1302-Marine biology and biological oceanography)
- wildlife studies (See 03.0601-Wildlife, fish and wildlands science and management)

26.0799 Zoology/animal biology, other

This instructional program class comprises any program not listed above that relates to Zoology/animal biology.

Illustrative example(s)

- other zoology/animal biology

26.08 Genetics

This subseries comprises instructional program classes 26.0801 to 26.0899.

26.0801 Genetics, general

This instructional program class comprises any general program that focuses on the scientific study of the organization, recombination, function, regulation, and transmission of heritable information in biological organisms at all levels of complexity. These programs include courses in Mendelian genetics, mechanisms of gene regulation, chromosome structure and replication, epigenetic phenomena, DNA repair and recombination, sex determination, genetic interactions between genomes, and molecular evolution.

Illustrative example(s)

- genetics

Exclusion(s)

- animal genetics (See 26.0804-Animal genetics)
- biomedical engineering (See 14.0501-Biomedical/medical engineering)
- clinical biochemical genetics - residency (See 61.0901-Clinical biochemical genetics residency programs)
- clinical genetics - residency (See 61.0902-Clinical genetics and genomics residency programs)
- genetic counselling (See 51.1509-Genetic counselling/counsellor)
- genetic engineering (See 14.0501-Biomedical/medical engineering)
- human genetics (See 26.0806-Human/medical genetics)
- laboratory genetics and genomics - residency (See 61.0903-Laboratory genetics and genomics residency programs)
- medical biochemical genetics - residency (See 61.0904-Medical biochemical genetics residency programs)
- molecular genetic pathology - fellowship (See 61.1812-Molecular genetic pathology fellowship programs)

- molecular genetics (See 26.0802-Molecular genetics)

26.0802 Molecular genetics

This instructional program class comprises any program that focuses on the scientific study of genetic structures and mechanisms of organisms, including bacteria, phages, and viruses. These programs include courses in the replication, expression, transfer, structure, maintenance, and stability of heritable information in DNA, RNA, and proteins; the regulation of these processes; and neurogenetics.

Illustrative example(s)

- molecular genetics
- neurogenetics
- protein expression
- proteomics

Exclusion(s)

- clinical molecular genetics - residency (See 61.0903-Laboratory genetics and genomics residency programs)
- cytogenetics (See 26.0899-Genetics, other)
- gene therapy (See 51.0914-Gene/genetic therapy)
- genetic counselling (See 51.1509-Genetic counselling/counsellor)
- genetic engineering (See 14.0501-Biomedical/medical engineering)
- genetics (See 26.0801-Genetics, general)
- genomics (See 26.0807-Genome sciences/genomics)
- human genetics (See 26.0806-Human/medical genetics)
- molecular biology (See 26.0204-Molecular biology)
- molecular genetic pathology - fellowship (See 61.1812-Molecular genetic pathology fellowship programs)
- molecular medicine (See 26.1401-Molecular medicine)

26.0803 Microbial and eukaryotic genetics

This instructional program class comprises any program that focuses on the scientific study of the genetics of viruses, infectious agents, organelles, nuclear genomes, eubacteria, archaeobacteria, and eukaryotic organisms. These programs include courses in molecular genetics and evolution; parasitic and symbiotic interaction at the genetic level; epigenetic phenomena; microbial interactions; and genomics.

Illustrative example(s)

- microbial and eukaryotic genetics

Exclusion(s)

- genetics (See 26.0801-Genetics, general)
- medical microbiology (See 26.0503-Medical microbiology and bacteriology)
- microbiology (See 26.0502-Microbiology, general)

26.0804 Animal genetics

This instructional program class comprises any program that focuses on the scientific study of the genetics of multicellular animal life forms from the experimental, comparative, and clinical (veterinary and medical) viewpoints. These programs include courses in molecular genetics, gene expression, gene regulation, genomics, epigenetic phenomena, DNA recombination and repair, genetic interactions at the microbial and higher levels, and molecular evolution.

Illustrative example(s)

- animal genetics

Exclusion(s)

- animal breeding (See 01.0902-Agricultural animal breeding)

- animal husbandry (See 01.0302-Animal/livestock husbandry and production)
- animal sciences (See 01.0901-Animal sciences, general)
- human genetics (See 26.0806-Human/medical genetics)
- theriogenology - residency (See 60.0315-Theriogenology residency programs)

26.0805 Plant genetics

This instructional program class comprises any program that focuses on the scientific study of the genetics of multicellular plants and fungi as related to botanical research as well as to applications in comparative genetics, ecology and evolutionary studies, clinical studies, and industrial research. These programs include courses in molecular genetics, gene expression, gene regulation, genomics, epigenetic phenomena, DNA recombination and repair, genetic interactions at the microbial and higher levels, and molecular evolution.

Illustrative example(s)

- plant genetics

Exclusion(s)

- botany (See 26.0301-Botany/plant biology, general)
- genetics (See 26.0801-Genetics, general)
- plant breeding (See 01.1104-Agricultural and horticultural plant breeding)
- plant sciences (See 01.1101-Plant sciences, general)

26.0806 Human/medical genetics

This instructional program class comprises any program that focuses on the scientific study of human genetics from the standpoint of medical applications such as clinical diagnosis, genetic engineering and therapy, transplantation, and the study of genetic diseases and disabilities and their defence. These programs include courses in human molecular genetics; genetic factors causing disease; changes in gene expression during development, differentiation, and pathogenesis; recombinant DNA; gene therapy; clinical genetics; genetic epidemiology; immunogenetics; cytogenetics; and genetics of specific disorders and diseases.

Illustrative example(s)

- human genetics
- medical genetics

Exclusion(s)

- animal genetics (See 26.0804-Animal genetics)
- gene therapy (See 51.0914-Gene/genetic therapy)
- genetic counselling (See 51.1509-Genetic counselling/counsellor)
- genetic engineering (See 14.0501-Biomedical/medical engineering)
- genetics (See 26.0801-Genetics, general)
- medical biochemical genetics - residency (See 61.0904-Medical biochemical genetics residency programs)
- public health genetics (See 51.2214-Public health genetics)

26.0807 Genome sciences/genomics

This instructional program class comprises any program that focuses on the scientific study of whole genome sequences and patterns of gene expression. These programs include courses in molecular and cellular biology, genetics, protein technologies, genomic sciences and techniques, bioinformatics, and scientific and research ethics.

Illustrative example(s)

- genome sciences
- genomics

Exclusion(s)

- molecular genetics (See 26.0802-Molecular genetics)

26.0899 Genetics, other

This instructional program class comprises any program not listed above that relates to Genetics.

Illustrative example(s)

- cytogenetics
- other genetics

26.09 Physiology, pathology and related sciences

This subseries comprises instructional program classes 26.0901 to 26.0999.

26.0901 Physiology, general

This instructional program class comprises any general program that focuses on the scientific study of the functional dynamics, morphology, and biochemical and biophysical communications within organisms and between living systems at all levels of complexity and integration. These programs include courses in reproduction, growth, hormonal action, vascular function, respiration, digestion, sensory perception and processing, sensorimotor integration, signal encoding and conveyance, homeostasis, physical function and malfunction, evolutionary physiology, and disease processes.

Illustrative example(s)

- human physiology
- physiology

Exclusion(s)

- aerospace physiology (See 26.0912-Aerospace physiology and medicine)
- animal physiology (See 26.0707-Animal physiology)
- cell physiology (See 26.0903-Cell physiology)
- exercise physiology (See 26.0908-Exercise physiology)
- plant physiology (See 26.0307-Plant physiology)

26.0902 Molecular physiology

This instructional program class comprises any program that focuses on the scientific study of dynamic interactive processes and biochemical communications at the subcellular level. These programs include courses in ion channels and transporters, molecular signalling pathways, endocrine control and regulation, genetic information transfer, homeostasis and molecular control systems, electrophysiology and sensory mechanisms, protein synthesis, and applicable research methods and technologies.

Illustrative example(s)

- molecular physiology

Exclusion(s)

- cell physiology (See 26.0903-Cell physiology)
- molecular biology (See 26.0204-Molecular biology)
- molecular medicine (See 26.1401-Molecular medicine)
- physiology (See 26.0901-Physiology, general)

26.0903 Cell physiology

This instructional program class comprises any program that focuses on the scientific study of physiological processes operating within and among cells, and intracellular communication and behaviour, in the context of larger systems and whole organisms. These programs include courses in cell and molecular biology, molecular physiology, cell cycle control, signal transduction, protein structure, membrane biochemistry and structure, ion channel physics, cell respiration and digestion, secretory functions, cell adhesion and communication, information encoding and decoding, and the relation of cell physiology to tissue, organ, and organismic functioning.

Illustrative example(s)

- cell physiology

Exclusion(s)

- cellular biology (See 26.0401-Cell/cellular biology and histology)
- molecular physiology (See 26.0902-Molecular physiology)
- physiology (See 26.0901-Physiology, general)

26.0904 Endocrinology

This instructional program class comprises any program that focuses on the scientific study of the composition, manufacture, and secretion of protein compounds by cells and glands and the role of endocrine substances in bodily processes. These programs include courses in protein chemistry, protein secretion, membrane biogenesis and transfer methods, cellular communication, gene and cell regulation, cytochemistry, fractionation, radioautography, and applications such as neuroendocrinology.

Illustrative example(s)

- endocrinology

Exclusion(s)

- endocrinology and metabolism - fellowship (See 61.0806-Endocrinology, diabetes and metabolism fellowship programs)
- pediatric endocrinology - fellowship (See 61.1909-Pediatric endocrinology fellowship programs)
- reproductive endocrinology - fellowship (See 61.1304-Reproductive endocrinology/infertility fellowship programs)

26.0905 Reproductive biology

This instructional program class comprises any program that focuses on the scientific study of reproductive processes and biogenesis in animals and human beings. These programs include courses in reproductive ecology and behaviour, reproductive system physiology, endocrinology, developmental biology, neuroendocrinology, evolution and types of reproductive systems, reproductive genetics, physiopathology of reproductive processes, and applications of molecular biology and biophysics to the study of reproductive physiology.

Illustrative example(s)

- reproductive biology
- reproductive physiology

Exclusion(s)

- animal breeding (See 01.0902-Agricultural animal breeding)
- animal genetics (See 26.0804-Animal genetics)
- biology (See 26.0101-Biology/biological sciences, general)
- genetics (See 26.0801-Genetics, general)
- human biology (See 30.2701-Human biology)
- human genetics (See 26.0806-Human/medical genetics)
- medical biology (See 26.0102-Biomedical sciences, general)
- obstetrics and gynecology - residency (See 61.1301-Obstetrics and gynecology residency programs)
- reproductive infertility - fellowship (See 61.1304-Reproductive endocrinology/infertility fellowship programs)
- theriogenology - residency (See 60.0315-Theriogenology residency programs)

26.0907 Cardiovascular science

This instructional program class comprises any program that focuses on the scientific study of the structure and functioning of the heart, vascular system, and blood in animals and human beings and the disorders and diseases associated with the cardiovascular system. These programs include courses in cardiovascular physiology, blood physiology, vasculature, vascular metabolism, neural control of cardiovascular function, microvascular

permeability and membrane transport, cardiac contraction mechanisms, homeostasis, and applications to topics such as arteriosclerosis, heart disease, diabetes, vascular remodelling, transplantation, transfusion, and pacemakers and artificial organs.

Illustrative example(s)

- cardiovascular science

Exclusion(s)

- cardiopulmonary technology (See 51.0915-Cardiopulmonary technology/technologist)
- cardiovascular disease - fellowship (See 61.0804-Cardiovascular disease fellowship programs)
- cardiovascular technician (See 51.0901-Cardiovascular technology/technologist)
- pediatric cardiology - fellowship (See 61.1906-Pediatric cardiology fellowship programs)

26.0908 Exercise physiology

This instructional program class comprises any program that focuses on the scientific study of the physiological processes involved in physical or motor activity, including sensorimotor interactions, response mechanisms, and the effects of injury, disease, and disability. These programs include courses in muscular and skeletal anatomy; molecular and cellular basis of muscle contraction; fuel utilization; neurophysiology of motor mechanics; systemic physiological responses (respiration, blood flow, endocrine secretions, and others); fatigue and exhaustion; muscle and body training; physiology of specific exercises and activities; physiology of injury; and the effects of disabilities and disease.

Illustrative example(s)

- exercise physiology
- exercise physiology and kinesiology

Exclusion(s)

- human kinetics (See 31.0505-Exercise science and kinesiology)
- human physiology (See 26.0901-Physiology, general)
- kinesiology and exercise science (See 31.0505-Exercise science and kinesiology)
- physical therapy (See 51.2308-Physical therapy/therapist)
- sport and exercise studies (See 31.0501-Sports, kinesiology, and physical education/physical fitness, general)

26.0909 Vision science/physiological optics

This instructional program class comprises any program that focuses on the scientific study of vision, visual processes, and related phenomena and clinical research and treatment modalities. These programs include courses in ocular anatomy and physiology, microbiology of the eye, electrophysiology, neurophysiology, corneal physiology, photochemistry, psychophysics, visual biophysics and motor systems, sensory mechanisms and photoreception, eye circulation and metabolism, geometric and physical optics, ocular development across the lifespan, visual stimuli and perception, colour vision, eye motility, biometrics and measurement techniques, visual pathology, and environmental issues.

Illustrative example(s)

- physiological optics
- vision science

Exclusion(s)

- laser and optical technology (See 15.0304-Laser and optical technology/technician)
- ophthalmology - residency (See 61.1401-Ophthalmology residency programs)
- optical science (See 40.0807-Optics/optical sciences)
- optometric assistant (See 51.1802-Optometric technician/assistant)
- optometry (See 51.1701-Optometry (OD))
- orthoptics (See 51.1804-Orthoptics/orthoptist)

26.0910 Pathology/experimental pathology

This instructional program class comprises any program that focuses on the scientific study of the expression, initiation, maintenance and progression of tissue injury and disease, including death, and the relationship of pathogenesis to fundamental molecular and cellular mechanisms. These programs include courses in immunology, microbiology, gene expression, inflammation, cell injury, apoptosis, immunopathology, molecular markers of disease and toxins, neoplasia, growth regulation, and organ- and system-specific investigations.

Illustrative example(s)

- experimental pathology
- pathology

Exclusion(s)

- molecular genetic pathology - fellowship (See 61.1812-Molecular genetic pathology fellowship programs)
- pathology - residency (See 61.1801-Combined anatomic and clinical pathology residency programs)
- pathology assistant (See 51.0811-Pathology/pathologist assistant)
- pediatric pathology - fellowship (See 61.1814-Pediatric pathology fellowship programs)

26.0911 Oncology and cancer biology

This instructional program class comprises any program that focuses on the scientific study of carcinogens; the onset of malignancy in cells, tissues, blood, and organs; the genetics of cancer; the anatomy and physiology of cancer cells; and the study of cancer behaviours and treatments. These programs include courses in gene expression; oncogenes and tumour suppressor genes; viral genes and cancer proliferation; regulation of signal transduction; cancer proteins; hormonal and growth factors in cancer cells; tumour promotion, progression, and metastasis; carcinogen receptors and metabolism; carcinogen ecology; immunological targeting; and studies of genetic, chemical, radiologic and other treatment therapies.

Illustrative example(s)

- cancer biology
- oncology

Exclusion(s)

- oncology - fellowship (See 61.0813-Medical oncology fellowship programs)

26.0912 Aerospace physiology and medicine

This instructional program class comprises any program that focuses on the scientific study of the physiological processes involved in low and high-altitude flight and living in space and related low-pressure and low-gravity environments, including sensorimotor interactions, response mechanisms, and the effects of injury, disease, and disability. These programs include courses in anatomy, molecular and cellular basis of muscle contraction, fuel utilization, neurophysiology of motor mechanics, systemic physiological responses (respiration, blood flow, endocrine secretions, and others), fatigue and exhaustion, systemic environmental pathologies, muscle and body training, physiology of specific exercises and activities, physiology of injury, and the effects of disabilities and disease.

Illustrative example(s)

- aerospace physiology
- aerospace physiology and medicine

Exclusion(s)

- aerospace medicine - residency (See 61.2302-Aerospace medicine residency programs)
- human physiology (See 26.0901-Physiology, general)

26.0913 Biomechanics

This instructional program class comprises any program that focuses on the biological, anatomical, and mechanical structure and function of the mechanical aspects of biological systems. These programs include courses in anatomy, physiology, kinesiology, mechanics, measurement and instrumentation, and research methods.

Illustrative example(s)

- biomechanics

Exclusion(s)

- biomechanical engineering (See 14.9999-Engineering, other)
- kinesiology (See 31.0505-Exercise science and kinesiology)
- occupational biomechanics (See 51.2306-Occupational therapy/therapist)

26.0999 Physiology, pathology and related sciences, other

This instructional program class comprises any program not listed above that relates to Physiology, pathology and related sciences.

Illustrative example(s)

- other physiology, pathology and related sciences

26.10 Pharmacology and toxicology

This subseries comprises instructional program classes 26.1001 to 26.1099.

26.1001 Pharmacology

This instructional program class comprises any program that focuses on the scientific study of drug interactions on biological systems and organisms and the sources, chemical properties, biological effects, and therapeutic uses of drugs. These programs include courses in pharmacodynamics, pharmacokinetics, toxicology, drug therapeutics, drug action, bodily responses to drug events, biochemical proliferation and differentiation, apoptosis, cell biology, medicinal chemistry, and studies of specific drugs and drug interactions.

Illustrative example(s)

- pharmacology

Exclusion(s)

- pharmaceuticals and drug design (See 51.2003-Pharmaceuticals and drug design (MS, MSc, PhD))
- pharmacology and toxicology (See 26.1007-Pharmacology and toxicology, integrated)
- pharmacy (See 51.2001-Pharmacy (PharmD, BS, BSc, BPharm))
- psychopharmacology (See 42.2709-Psychopharmacology)
- veterinary clinical pharmacology - residency (See 60.0320-Veterinary clinical pharmacology residency programs)

26.1002 Molecular pharmacology

This instructional program class comprises any program that focuses on the scientific study of the biochemical and biophysical characteristics of drugs at the molecular level and their interaction with, and effects on, biological macromolecules and cellular structures and processes. These programs include courses in molecular biology and biophysics; pharmacology of signal transduction, transmitters, and protein synthesis and release; receptors, protein interaction and binding; drug discovery and recognition; molecular toxicology; drug design; pharmacodynamics; developmental genetics; and studies of therapeutic strategies.

Illustrative example(s)

- molecular pharmacology

Exclusion(s)

- molecular medicine (See 26.1401-Molecular medicine)
- pharmacology (See 26.1001-Pharmacology)
- pharmacology and toxicology (See 26.1007-Pharmacology and toxicology, integrated)
- pharmacy (See 51.2001-Pharmacy (PharmD, BS, BSc, BPharm))
- psychopharmacology (See 42.2709-Psychopharmacology)

26.1003 Neuropharmacology

This instructional program class comprises any program that focuses on the scientific study of drugs that modify the function of the brain and central nervous system, the effects of such drugs on health, disease, perception, motor action, and behaviour; and the development of countermeasures and treatment therapies. These programs include courses in neuroanatomy, neurophysiology, behavioural neuroscience, neurobiochemistry, neuropathology, the mechanisms of brain function, medicinal chemistry, pharmaceuticals, and studies of specific drugs and drug therapies.

Illustrative example(s)

- neuropharmacology

Exclusion(s)

- neuroscience (See 26.1501-Neuroscience)
- pharmacology (See 26.1001-Pharmacology)
- pharmacology and toxicology (See 26.1007-Pharmacology and toxicology, integrated)
- pharmacy (See 51.2001-Pharmacy (PharmD, BS, BSc, BPharm))
- psychopharmacology (See 42.2709-Psychopharmacology)

26.1004 Toxicology

This instructional program class comprises any program that focuses on the scientific study of poisons and other biohazards; their interactions with organisms and their food and respiratory systems; and their prevention, management, and counteraction. These programs include courses in toxicological biochemistry, toxic agents and transporters, toxin fate, toxicokinetics and metabolism, toxin classification, molecular toxic mechanisms, extracellular matrices and cell function, bacterial pathogenesis and mutagenesis, pathophysiology and apoptosis, cell stress and injury, studies of specific toxins, and studies of specific organ systems and physiological functions in relation to toxicological problems.

Illustrative example(s)

- biomedical toxicology
- toxicology

Exclusion(s)

- environmental toxicology (See 26.1006-Environmental toxicology)
- hazardous waste technology (See 15.0508-Hazardous materials management and waste technology/technician)
- medical toxicology - fellowship (See 61.0208-Medical toxicology fellowship programs)
- molecular toxicology (See 26.1005- Molecular toxicology)
- pharmacology and toxicology (See 26.1007-Pharmacology and toxicology, integrated)

26.1005 Molecular toxicology

This instructional program class comprises any program that focuses on the scientific study of the genetic determinants of susceptibility to external pollutants and poisons; the interaction of toxic agents with biological systems at the molecular and cellular levels; and the development of countermeasures and treatments. These programs include courses in pharmacogenetics, biomolecular structure, gene expression and regulation, transgenic modelling, toxic events signalling, transcriptional activation, mutagenesis and carcinogenesis,

pulmonary toxicology, xenobiotic metabolism, oxidative stress, risk assessment, molecular dosimetry, and studies of specific toxins and treatment therapies.

Illustrative example(s)

- molecular toxicology

Exclusion(s)

- molecular medicine (See 26.1401-Molecular medicine)
- pharmacology and toxicology (See 26.1007-Pharmacology and toxicology, integrated)
- toxicology (See 26.1004-Toxicology)

26.1006 Environmental toxicology

This instructional program class comprises any program that focuses on the scientific study of the health effects associated with exposure to toxic chemicals and systems occurring in the natural, work, and living environments; the management of environmental toxins and toxicity; and the development of protections for humans, animals, and plants. These programs include courses in applied ecology; microbiology; toxin transport, fate, and degradation; dermal toxicology; reproductive and genetic toxicology; atmospheric and environmental chemistry; metals toxicology; environmental mutagens and biotransformation; nutrient interaction; chemical sensitivity, disorders, and disease; risk assessment; animal waste management; environmental health; and hazardous materials management.

Illustrative example(s)

- ecotoxicology
- environmental toxicology

Exclusion(s)

- ecology (See 26.1301-Ecology)
- environmental engineering technology (See 15.0507-Environmental/environmental engineering technology/technician)
- environmental science (See 03.0104-Environmental science)
- environmental studies (See 03.0103-Environmental studies)
- plant protection (See 01.1105-Plant protection and integrated pest management)
- toxicology (See 26.1004-Toxicology)

26.1007 Pharmacology and toxicology, integrated

This instructional program class comprises any program with an integrated, combined approach to the study of pharmacological and toxicological issues in biology and the biomedical sciences. These programs include courses in topics such as solvents, xenobiotic metabolism, chemical toxicity, neurotoxicology, immunopharmacology, biotransformation, tissue culture and in vitro studies, biomolecular analysis, bioactivation and inactivation, enzyme regulation, chemoprevention and chemotherapy, industrial and chemical studies, radiation health, and bioinformatics.

Illustrative example(s)

- combined pharmacology and toxicology
- pharmacology and toxicology

Exclusion(s)

- pharmacology (See 26.1001-Pharmacology)
- toxicology (See 26.1004-Toxicology)

26.1099 Pharmacology and toxicology, other

This instructional program class comprises any program not listed above that relates to Pharmacology and toxicology.

Illustrative example(s)

- other pharmacology and toxicology

26.11 Biomathematics, bioinformatics, and computational biology

This subseries comprises instructional program classes 26.1101 to 26.1199.

26.1101 Biometry/biometrics

This instructional program class comprises any program that focuses on the application of statistics and other computational methods to the study of problems in the biological sciences and related fields in agriculture and natural resources. These programs include courses in computational biology, mathematical statistics, matrix algebra, applied calculus, experimental design, linear modelling, sampling theory, stochastic processes, spatial and temporal analysis, longitudinal analysis, sparse/unbalanced data and complex error, and applications to such topics as population genetics, animal breeding, forest genetics, population dynamics, wildlife biometry, ecology, and agricultural and natural resource management.

Illustrative example(s)

- biometrics
- biometry

Exclusion(s)

- bioinformatics (See 26.1103-Bioinformatics)
- biostatistics (See 26.1102-Biostatistics)
- mathematical biology (See 27.0306-Mathematical biology)

26.1102 Biostatistics

This instructional program class comprises any program that focuses on the application of descriptive and inferential statistics to biomedical research and clinical, public health, and industrial issues related to human populations. These programs include courses in mathematical statistics, modelling, clinical trials methodology, disease and survival analysis, longitudinal analysis, missing data analysis, spatial analysis, computer tomography, biostatistics consulting, and applications to such topics as genetics, oncology, pharmacokinetics, physiology, neurobiology, and biophysics.

Illustrative example(s)

- biostatistics

Exclusion(s)

- mathematical biology (See 27.0306-Mathematical biology)
- mathematical statistics (See 27.0502-Mathematical statistics and probability)
- public health (MPH, DPH) (See 51.2201-Public health, general (BPH, MPH, DPH))
- statistics (See 27.0501-Statistics, general)

26.1103 Bioinformatics

This instructional program class comprises any program that focuses on the application of computer-based technologies and services to biological, biomedical, and biotechnology research. These programs include courses in algorithms, network architecture, principles of software design, human interface design, usability studies, search strategies, database management and data mining, digital image processing, computer graphics and animation, CAD, computer programming, and applications to experimental design and analysis and to specific quantitative, modelling, and analytical studies in the various biological specializations.

Illustrative example(s)

- bioinformatics

Exclusion(s)

- cheminformatics (See 40.0512-Cheminformatics/chemistry informatics)
- computational biology (See 26.1104-Computational biology)
- computer science (See 11.0701-Computer science)
- informatics (See 11.0104-Informatics)
- mathematical biology (See 27.0306-Mathematical biology)
- medical informatics (See 51.2706-Medical informatics)

26.1104 Computational biology

This instructional program class comprises any program that focuses on computational theoretical approaches to understanding biological systems, including computational models of biological processes, computational management of large-scale projects, database development and data-algorithm development, and high-performance computing, as well as statistical and mathematical analyses.

Illustrative example(s)

- computational and systems biology
- computational biology

Exclusion(s)

- bioinformatics (See 26.1103-Bioinformatics)
- computational chemistry (See 40.0512-Cheminformatics/chemistry informatics)
- computer science (See 11.0701-Computer science)
- health informatics (See 51.2706-Medical informatics)
- mathematical biology (See 27.0306-Mathematical biology)
- scientific computing (See 30.3001-Computational science)

26.1199 Biomathematics, bioinformatics, and computational biology, other

This instructional program class comprises any program not listed above that relates to Biomathematics, bioinformatics, and computational biology.

Illustrative example(s)

- biomathematics
- other biomathematics, bioinformatics, and computational biology

26.12 Biotechnology

This subseries comprises instructional program class 26.1201.

26.1201 Biotechnology

This instructional program class comprises any program that focuses on the application of the biological sciences, biochemistry, and genetics to the preparation of new and enhanced agricultural, environmental, clinical, and industrial products, including the commercial exploitation of microbes, plants, and animals. These programs include courses in bioinformatics, gene identification, phylogenetics and comparative genomics, bioinorganic chemistry, immunoassaying, DNA sequencing, xenotransplantation, genetic engineering, industrial microbiology, drug and biologic development, enzyme-based production processes, patent law, biotechnology management and marketing, applicable regulations, and biotechnology ethics.

Illustrative example(s)

- biotechnology
- plant biotechnology

Exclusion(s)

- agricultural plant breeding (See 01.1104-Agricultural and horticultural plant breeding)
- biology technician (See 41.0101-Biology and biotechnology technologies/technicians)

- biomedical engineering (See 14.0501-Biomedical/medical engineering)
- biomedical engineering technology (See 15.0401-Biomedical technology/technician)
- food processing technology (See 01.1002-Food technology and processing)
- food science (See 01.1001-Food science)
- plant science technology (See 01.1199-Plant sciences, other)

26.13 Ecology, evolution, systematics and population biology

This subseries comprises instructional program classes 26.1301 to 26.1399.

26.1301 Ecology

This instructional program class comprises any program that focuses on the scientific study of the relationships and interactions of small-scale biological systems, such as organisms, to each other, to complex and whole systems, and to the physical and other non-biological aspects of their environments. These programs include courses in biogeochemistry; landscape and/or marine/aquatic dynamics; decomposition; global and regional elemental budgets; biotic and abiotic regulation of nutrient cycles; ecophysiology; ecosystem resilience, disturbance, and succession; community and habitat dynamics; organismal interactions (co-evolution, competition, predation); paleoecology, and evolutionary ecology.

Illustrative example(s)

- animal ecology
- ecology
- ecosystem science
- horticulture science in urban ecosystems
- plant ecology
- urban ecosystems
- wildlife ecology

Exclusion(s)

- ecology and evolutionary biology (See 26.1310-Ecology and evolutionary biology)
- environmental biology (See 26.1305-Environmental biology)
- environmental science (See 03.0104-Environmental science)
- environmental studies (See 03.0103-Environmental studies)
- human ecology (See 19.0101-Family and consumer sciences/human sciences, general)
- natural resources conservation (See 03.0101-Natural resources/conservation, general)
- plant sciences (See 01.1101-Plant sciences, general)
- sustainable urban horticulture (See 01.0610-Urban and community horticulture)

26.1302 Marine biology and biological oceanography

This instructional program class comprises any program that focuses on the scientific study of the ecology and behaviour of microbes, plants, and animals inhabiting oceans, coastal waters, and saltwater wetlands and their interactions with the physical environment. These programs include courses in chemical, physical, and geological oceanography; molecular, cellular, and biochemical studies; marine microbiology; marine botany; ichthyology; mammalogy; marine population dynamics and biodiversity; reproductive biology; studies of specific species, phyla, habitats, and ecosystems; marine paleoecology and paleontology; and applications to fields such as fisheries science and biotechnology.

Illustrative example(s)

- biological oceanography
- marine biology

Exclusion(s)

- aquaculture (See 01.0303-Aquaculture)
- biological sciences (See 26.0101-Biology/biological sciences, general)
- fisheries biology (See 26.1304-Aquatic biology/limnology)

- fisheries science (See 03.0301-Fishing and fisheries sciences and management)
- marine sciences (See 30.3201-Marine sciences)
- physical oceanography (See 40.0607-Oceanography, chemical and physical)

26.1303 Evolutionary biology

This instructional program class comprises any program that focuses on the scientific study of the genetic, developmental, functional, and morphological patterns and processes, and theoretical principles; and the emergence and mutation of organisms over time. These programs include courses in molecular and morphological systematics; genetics and development; evolutionary transformation; paleobiology and paleontology; morphogenesis; mutation; locomotor, biomechanical and craniodental form and function; evolutionary theory; and systematic biology.

Illustrative example(s)

- evolutionary biology

Exclusion(s)

- anthropology (See 45.0201-Anthropology, general)
- biology (See 26.0101-Biology/biological sciences, general)
- ecology and evolutionary biology (See 26.1310-Ecology and evolutionary biology)
- human biology (See 30.2701-Human biology)
- physical anthropology (See 45.0202-Physical and biological anthropology)

26.1304 Aquatic biology/limnology

This instructional program class comprises any program that focuses on the scientific study of the ecology and behaviour of microbes, plants, and animals inhabiting inland fresh waters such as lakes, ponds, rivers, creeks, estuaries, and wetlands. These programs include courses in geology and hydrology; aquatic ecosystems; microbiology; mycology; botany; ichthyology; mammalogy; population biology and biodiversity; studies of specific species, phyla, and habitats; and applications to fields such as natural resources conservation, fisheries science, and biotechnology.

Illustrative example(s)

- aquatic biology
- aquatic ecology
- freshwater ecology
- limnology

Exclusion(s)

- aquaculture (See 01.0303-Aquaculture)
- biological sciences (See 26.0101-Biology/biological sciences, general)
- fisheries science (See 03.0301-Fishing and fisheries sciences and management)
- marine biology (See 26.1302-Marine biology and biological oceanography)

26.1305 Environmental biology

This instructional program class comprises any program that focuses on the scientific study of the origins, functions, relationships, interactions, and natural history of living populations, communities, species, and ecosystems in relation to dynamic environmental processes. These programs include courses in biodiversity, molecular genetic and genomic evolution, meso-scale ecology, computational biology and modelling, conservation biology, local and global environmental change, and restoration ecology.

Illustrative example(s)

- environmental biology
- environmental microbiology

Exclusion(s)

- biology (See 26.0101-Biology/biological sciences, general)
- ecology (See 26.1301-Ecology)
- environmental engineering (See 14.1401-Environmental/environmental health engineering)
- environmental engineering technology (See 15.0507-Environmental/environmental engineering technology/technician)
- environmental science (See 03.0104-Environmental science)
- natural sciences (See 30.1801-Natural sciences)

26.1306 Population biology

This instructional program class comprises any program that focuses on the scientific study of the natural history, life cycle behaviour, and ecosystem dynamics of single species and multi-species communities, and the patterns and causes of diversity within and among such populations. These programs include courses in biostatistics, population dynamics, population and quantitative genetics, RNA and DNA sequences, genomics, evolutionary ecology, natural adaptation and hybridization, geographic differentiation, life history and life cycle studies, and animal and plant demography.

Illustrative example(s)

- population biology

Exclusion(s)

- biology (See 26.0101-Biology/biological sciences, general)
- epidemiology (See 26.1309-Epidemiology)
- human biology (See 30.2701-Human biology)
- population studies (See 45.0501-Demography and population studies)
- public health (MPH, DPH) (See 51.2201-Public health, general (BPH, MPH, DPH))

26.1307 Conservation biology

This instructional program class comprises any program that focuses on the application of the biological sciences to the specific problems of biodiversity, species preservation, ecological sustainability, and habitat fragmentation in the face of advancing human social, economic, and industrial pressures. These programs include courses in ecology, environmental science, biological systems, extinction theory, human-animal and human-plant interaction, ecosystem science and management, wetland conservation, field biology, forest and wildlife biology, and natural history.

Illustrative example(s)

- conservation biology

Exclusion(s)

- biology (See 26.0101-Biology/biological sciences, general)
- ecology (See 26.1301-Ecology)
- environmental biology (See 26.1305-Environmental biology)
- environmental science (See 03.0104-Environmental science)
- historic preservation and conservation (See 30.1201-Historic preservation and conservation, general)
- natural resources conservation (See 03.0101-Natural resources/conservation, general)
- renewable resources (See 03.0199-Natural resources conservation and research, other)
- wildlife biology (See 26.0709-Wildlife biology)

26.1308 Systematic biology/biological systematics

This instructional program class comprises any program that focuses on the theoretical and empirical study of the principles and processes underlying the origin and maintenance of biological taxonomic diversity; related biogeographical and evolutionary patterns; and studies of the origin, diversification, distribution, and extinction of species and lineages. These programs include courses in phylogenetic analysis, structural development

and molecular evolution, classification and taxonomic theory, biological nomenclature, taxonomic assignment, evolutionary theory, biological surveys and inventories, computer modelling, and database building.

Illustrative example(s)

- biological systematics
- systematic biology

Exclusion(s)

- biological sciences (See 26.0101-Biology/biological sciences, general)
- biostatistics (See 26.1102-Biostatistics)
- evolutionary biology (See 26.1303-Evolutionary biology)
- systems science (See 30.0601-Systems science and theory)

26.1309 Epidemiology

This instructional program class comprises any program that focuses on the scientific study of disease, disability, and trauma patterns within and across populations and the development of health management mechanisms to prevent and control disease outbreaks and injurious behaviours. These programs include courses in biostatistics, biochemistry, molecular biology, immunology, disease and injury determinants, genetic disease and disability factors, behavioural studies, health services research, environmental disease and injury factors, and population studies.

Illustrative example(s)

- epidemiology

Exclusion(s)

- disease registry data management (See 51.0721-Disease registry data management)
- epidemiology and biostatistics (See 26.1311-Epidemiology and biostatistics)
- immunology (See 26.0507-Immunology)
- public health (MPH, DPH) (See 51.2201-Public health, general (BPH, MPH, DPH))
- public health medicine - residency (See 61.2301-Public health and general preventive medicine residency programs)
- veterinary epidemiology (See 01.8110-Veterinary preventive medicine, epidemiology and public health (Cert., MS, MSc, PhD))
- virology (See 26.0504-Virology)

26.1310 Ecology and evolutionary biology

This instructional program class comprises any program that focuses on the scientific study of the relationships and interactions across levels of biological organization - genes and genomes, organisms, species, and ecosystems - and how these change over time, including the origins and history of species, the processes by which biodiversity has evolved, and the ecological context in which this evolution takes place. These programs include courses in animal, plant, population, functional, evolutionary, and ecosystem ecology; ecological and evolutionary genetics; molecular evolution; population and conservation biology; animal and plant diversity; biometry; and scientific and research ethics.

Illustrative example(s)

- combined ecology and evolutionary biology
- ecology and evolutionary biology

Exclusion(s)

- ecology (See 26.1301-Ecology)
- evolutionary biology (See 26.1303-Evolutionary biology)

26.1311 Epidemiology and biostatistics

This instructional program class comprises any program with a general synthesis of epidemiology and biostatistics or a specialization which draws from epidemiology and biostatistics. These programs include courses in biostatistics, disease and injury determinants, epidemiology, health services research, pathology, spatial analysis, and statistics.

Illustrative example(s)

- biostatistics and epidemiology
- epidemiology and biostatistics

Exclusion(s)

- biostatistics (See 26.1102-Biostatistics)
- epidemiology (See 26.1309-Epidemiology)

26.1399 Ecology, evolution, systematics and population biology, other

This instructional program class comprises any program not listed above that relates to Ecology, evolution, systematics and population biology.

Illustrative example(s)

- other ecology, evolution, systematics and population biology

26.14 Molecular medicine

This subseries comprises instructional program class 26.1401.

26.1401 Molecular medicine

This instructional program class comprises any program that focuses on the scientific study of the molecular and cellular basis of disease, and the application of this knowledge to the development of new clinical and diagnostic tools, medications, and therapies. These programs include courses in cell biology, molecular biology, physiology, pharmacology, biochemistry, genetics, pathology, molecular immunology, research and quantitative methods, and biomedical research computing.

Illustrative example(s)

- molecular medicine

Exclusion(s)

- cellular and molecular biology (See 26.0406-Cell/cellular and molecular biology)
- clinical molecular genetics - residency (See 61.0903-Laboratory genetics and genomics residency programs)
- molecular biology (See 26.0204-Molecular biology)
- molecular genetic pathology - fellowship (See 61.1812-Molecular genetic pathology fellowship programs)
- molecular genetics (See 26.0802-Molecular genetics)
- molecular pharmacology (See 26.1002-Molecular pharmacology)
- molecular physiology (See 26.0902-Molecular physiology)
- molecular toxicology (See 26.1005- Molecular toxicology)

26.15 Neurobiology and neurosciences

This subseries comprises instructional program classes 26.1501 to 26.1599.

26.1501 Neuroscience

This instructional program class comprises any program that focuses on the interdisciplinary scientific study of the molecular, structural, physiologic, cognitive, and behavioural aspects of the brain and nervous system. These programs include courses in molecular and cellular neuroscience, brain science, anatomy and physiology of the

central nervous system, molecular and biochemical bases of information processing, behavioural neuroscience, biology of neuropsychiatric disorders, and applications to the clinical sciences and biomedical engineering.

Illustrative example(s)

- cognitive neuroscience
- computational neuroscience
- developmental neuroscience
- molecular and cellular neuroscience
- neuroscience
- neurosciences
- systems neuroscience

Exclusion(s)

- behavioural neuroscience (See 42.2706-Behavioural neuroscience)
- cognitive science (See 30.2501-Cognitive science, general)
- neuroanatomy (See 26.1502-Neuroanatomy)
- neurobiology and anatomy (See 26.1503-Neurobiology and anatomy)
- neurology - residency (See 61.1101-Neurology residency programs)
- neuropharmacology (See 26.1003-Neuropharmacology)
- scientific computing (See 30.3001-Computational science)

26.1502 Neuroanatomy

This instructional program class comprises any program that focuses on the scientific study of the structure of the central and peripheral nervous system in vertebrates or the nervous system of invertebrates. These programs include courses in cellular and circuit anatomy, mapping of neuronal pathways, anatomical distribution and mapping of neuronal signalling molecules and their receptors, and the anatomical basis of central nervous system diseases and disorders.

Illustrative example(s)

- neuroanatomy

Exclusion(s)

- anatomy (See 26.0403-Anatomy)
- neurobiology and anatomy (See 26.1503-Neurobiology and anatomy)
- neurology - residency (See 61.1101-Neurology residency programs)
- neuroscience (See 26.1501-Neuroscience)

26.1503 Neurobiology and anatomy

This instructional program class comprises any program that focuses on the scientific study of the structure and function of the central and peripheral nervous system in vertebrates and invertebrates. These programs include courses in molecular and cellular studies of neuronal and glial cells and circuits, neural transmitters and receptors, neuronal signalling processes, membrane and synapse structure and communication, autonomic function, nervous system circuitry and mapping, and anatomical and functional basis of central nervous system diseases and disorders.

Illustrative example(s)

- neurobiology
- neurobiology and anatomy
- neurobiology and neurophysiology
- neurophysiology

Exclusion(s)

- clinical neurophysiology - fellowship (See 61.1103-Clinical neurophysiology fellowship programs)
- neuroanatomy (See 26.1502-Neuroanatomy)

- neurobiology and behaviour (See 26.1504-Neurobiology and behaviour)
- neurology - residency (See 61.1101-Neurology residency programs)
- neuroscience (See 26.1501-Neuroscience)

26.1504 Neurobiology and behaviour

This instructional program class comprises any program that focuses on the scientific study of the structure and function of the central and peripheral nervous system in vertebrates and invertebrates as it relates to control of behaviour. These programs include courses in neuronal systems and circuits, higher level studies of behaviour and cognition, computational neurobiology, and behavioural manifestations of central nervous system diseases and disorders.

Illustrative example(s)

- neurobiology and behaviour

Exclusion(s)

- behavioural neuroscience (See 42.2706-Behavioural neuroscience)
- health behaviour (See 51.2212-Behavioural aspects of health)
- medical neurobiology (See 26.1599-Neurobiology and neurosciences, other)
- neurobiology and anatomy (See 26.1503-Neurobiology and anatomy)

26.1599 Neurobiology and neurosciences, other

This instructional program class comprises any program not listed above that relates to Neurobiology and neurosciences.

Illustrative example(s)

- computational neurobiology
- medical neurobiology
- other neurobiology and neurosciences

Exclusion(s)

- neurobiology and behaviour (See 26.1504-Neurobiology and behaviour)
- scientific computing (See 30.3001-Computational science)

26.99 Biological and biomedical sciences, other

This subseries comprises instructional program class 26.9999.

26.9999 Biological and biomedical sciences, other

This instructional program class comprises any program not listed above that relates to Biological and biomedical sciences.

Illustrative example(s)

- other biological and biomedical science

27. Mathematics and statistics

This series comprises instructional programs that focus on the systematic study of logical symbolic language and its applications.

27.01 Mathematics

This subseries comprises instructional program classes 27.0101 to 27.0199.

27.0101 Mathematics, general

This instructional program class comprises any general program that focuses on the analysis of quantities, magnitudes, forms, and their relationships, using symbolic logic and language. These programs include courses in algebra, calculus, functional analysis, geometry, number theory, logic, topology and other mathematical specializations.

Illustrative example(s)

- mathematics
- pure mathematics

Exclusion(s)

- applied mathematics (See 27.0301-Applied mathematics, general)
- logic (See 38.0102-Logic)
- mathematical physics (See 40.0810-Theoretical and mathematical physics)
- mathematics and statistics (See 27.0503-Mathematics and statistics)
- mathematics teacher education (See 13.1311-Mathematics teacher education)
- numeracy and computational skills (not for credit) (See 32.0104-Numeracy and computational skills (not for credit))

27.0102 Algebra and number theory

This instructional program class comprises any program that focuses on the expression of quantities and their relationships by means of symbols, vectors, matrices, and equations, and the properties of integers. These programs include courses in algebraic structures, quadratic and automorphic forms, combinatorics, linear algebra, and algebraic geometry.

Illustrative example(s)

- algebra
- algebra and number theory

27.0103 Analysis and functional analysis

This instructional program class comprises any program that focuses on the properties and behaviour of equations, multivariate solutions, functions, and dynamic systems. These programs include courses in differential equations, variation, approximations, complex variables, integrals, harmonic analysis and wavelet theory, dynamic systems, and applications to mathematical physics.

Illustrative example(s)

- analysis and functional analysis

27.0104 Geometry/geometric analysis

This instructional program class comprises any program that focuses on the properties, measurements, and relationships pertaining to points, lines, angles, surfaces, and solids. These programs include courses in global analysis, differential geometry, Euclidian and non-Euclidian geometry, set theory, manifolds, integral geometry, and applications to algebra and other topics.

Illustrative example(s)

- geometric analysis
- geometry

27.0105 Topology and foundations

This instructional program class comprises any program that focuses on the properties of unaltered geometric configurations under conditions of continuous, multi-directional transformations. These programs include courses in mathematical logic, proof theory, model theory, set theory, combinatorics, continua, homotopy, homology, links, and transformation actions.

Illustrative example(s)

- topology
- topology and foundations

Exclusion(s)

- geological engineering (See 14.3901-Geological/geophysical engineering)
- geomatics engineering (See 14.3801-Surveying engineering)
- logic (See 38.0102-Logic)

27.0199 Mathematics, other

This instructional program class comprises any program not listed above that relates to Mathematics.

Illustrative example(s)

- other mathematics

Exclusion(s)

- actuarial mathematics (See 52.1304-Actuarial science)

27.03 Applied mathematics

This subseries comprises instructional program classes 27.0301 to 27.0399.

27.0301 Applied mathematics, general

This instructional program class comprises any program that focuses on the application of mathematics to the solution of functional problems in fields such as engineering and the applied sciences. These programs include courses in natural phenomena modelling continuum mechanics, reaction-diffusion, wave propagation, dynamic systems, numerical analysis, controlled theory, asymptotic methods, variation, optimization theory, inverse problems, and applications to specific scientific and industrial topics.

Illustrative example(s)

- applied mathematics
- mathematical sciences
- mathematics science

Exclusion(s)

- applied statistics (See 27.0601-Applied statistics, general)
- computational and applied mathematics (See 27.0304-Computational and applied mathematics)
- financial mathematics (See 27.0305-Financial mathematics)
- mathematical biology (See 27.0306-Mathematical biology)
- mathematical economics (See 30.4901-Mathematical economics)
- mathematical physics (See 40.0810-Theoretical and mathematical physics)
- operations research (See 14.3701-Operations research)

27.0303 Computational mathematics

This instructional program class comprises any program that focuses on the application of mathematics to the theory, architecture, and design of computers, computational techniques, and algorithms. These programs include courses in computer theory, cybernetics, numerical analysis, algorithm development, binary structures, combinatorics, advanced statistics, and related topics.

Illustrative example(s)

- computational mathematics

Exclusion(s)

- actuarial mathematics (See 52.1304-Actuarial science)

- computational and applied mathematics (See 27.0304-Computational and applied mathematics)
- computer science (See 11.0701-Computer science)
- mathematics and computer science (See 30.0801-Mathematics and computer science)
- scientific computing (See 30.3001-Computational science)

27.0304 Computational and applied mathematics

This instructional program class comprises any program that focuses on the application of a broad range of mathematical and computational methods to modelling, analysis, algorithm development, and simulation for the solution of complex scientific and engineering problems. These programs include courses in numerical analysis, discrete mathematics, operations research, optimization, differential equations, statistics, scientific computation, and applications to specific scientific and industrial topics.

Illustrative example(s)

- applied and computational mathematics
- combined computational and applied mathematics
- computational and applied mathematics

Exclusion(s)

- applied mathematics (See 27.0301-Applied mathematics, general)
- computational mathematics (See 27.0303-Computational mathematics)
- scientific computing (See 30.3001-Computational science)

27.0305 Financial mathematics

This instructional program class comprises any program that focuses on the application of mathematics and statistics to the finance industry, including the development, critique, and use of various financial models. These programs include courses in probability theory, statistical analysis, numerical methods, computation and simulation methods, stochastic processes, economics, and financial markets and applications.

Illustrative example(s)

- mathematical finance
- quantitative and computational finance
- quantitative finance

Exclusion(s)

- applied mathematics (See 27.0301-Applied mathematics, general)

27.0306 Mathematical biology

This instructional program class comprises any program that focuses on the application of mathematics to genomics, molecular modelling, structural biology, ecology, evolutionary biology and systems of analysis of neurobiology, physiology, and metabolism. These programs include courses in computational mathematics, chaos and nonlinear systems, perturbation methods, evolutionary biology, molecular biology, bioinformatics, and neurobiology.

Illustrative example(s)

- mathematical biology

Exclusion(s)

- applied mathematics (See 27.0301-Applied mathematics, general)
- bioinformatics (See 26.1103-Bioinformatics)
- biometrics (See 26.1101-Biometry/biometrics)
- biostatistics (See 26.1102-Biostatistics)
- computational biology (See 26.1104-Computational biology)

27.0399 Applied mathematics, other

This instructional program class comprises any program not listed above that relates to Applied mathematics.

Illustrative example(s)

- combinatorics and optimization
- financial insurance
- other applied mathematics

27.05 Statistics

This subseries comprises instructional program classes 27.0501 to 27.0599.

27.0501 Statistics, general

This instructional program class comprises any general program that focuses on the relationships between groups of measurements, and similarities and differences, using probability theory and techniques derived from it. These programs include courses in the principles in probability theory, binomial distribution, regression analysis, standard deviation, stochastic processes, Monte Carlo method, Bayesian statistics, non-parametric statistics, sampling theory, and statistical techniques.

Illustrative example(s)

- statistics

Exclusion(s)

- actuarial mathematics (See 52.1304-Actuarial science)
- applied statistics (See 27.0601-Applied statistics, general)
- biostatistics (See 26.1102-Biostatistics)
- business statistics (See 52.1302-Business statistics)
- educational statistics and research methods (See 13.0603-Educational statistics and research methods)
- mathematics and statistics (See 27.0503-Mathematics and statistics)
- social research methods (See 45.0102-Research methodology and quantitative methods)

27.0502 Mathematical statistics and probability

This instructional program class comprises any program that focuses on the mathematical theory underlying statistical methods and their use. These programs include courses in probability theory, parametric and nonparametric inference, sequential analysis, multivariate analysis, Bayesian analysis, experimental design, time series analysis, resampling, robust statistics, limit theory, infinite particle systems, stochastic processes, martingales, Markov processes, and Banach spaces.

Illustrative example(s)

- mathematical statistics
- probability
- probability and statistics
- theoretical statistics

Exclusion(s)

- actuarial mathematics (See 52.1304-Actuarial science)
- biostatistics (See 26.1102-Biostatistics)
- business statistics (See 52.1302-Business statistics)
- educational statistics and research methods (See 13.0603-Educational statistics and research methods)

27.0503 Mathematics and statistics

This instructional program class comprises any program with a general synthesis of mathematics and statistics or a specialization which draws from mathematics and statistics. These programs include courses in calculus, linear

algebra, numerical analysis and partial differential equations, discrete mathematics, probability theory, statistics, computing, and other related topics.

Illustrative example(s)

- combined mathematics and statistics
- mathematics and statistics

Exclusion(s)

- mathematics (See 27.0101-Mathematics, general)
- statistics (See 27.0501-Statistics, general)

27.0599 Statistics, other

This instructional program class comprises any program not listed above that relates to Statistics.

Illustrative example(s)

- other statistics

27.06 Applied statistics

This subseries comprises instructional program class 27.0601.

27.0601 Applied statistics, general

This instructional program class comprises any program that focuses on the application of statistics to the solution of functional problems in fields such as business, engineering, medicine, and the applied sciences. These programs include courses in the principles in inference, probability theory, regression analysis, descriptive statistics, stochastic processes, Monte Carlo method, Bayesian statistics, non-parametric statistics, sampling theory, statistical computing, and statistical techniques.

Illustrative example(s)

- applied statistics

Exclusion(s)

- applied mathematics (See 27.0301-Applied mathematics, general)
- operations research (See 14.3701-Operations research)
- statistics (See 27.0501-Statistics, general)

27.99 Mathematics and statistics, other

This subseries comprises instructional program class 27.9999.

27.9999 Mathematics and statistics, other

This instructional program class comprises any program not listed above that relates to Mathematics and statistics.

Illustrative example(s)

- other mathematics and statistics

28. Military science, leadership and operational art

This series comprises instructional programs that provide professional education and training of military officers in leadership, military science and operational studies, security policy and strategy, military economics and management, and pre-officer training.

28.08 Military science, leadership and operational art^{CAN}

This subseries comprises instructional program class 28.0801.

28.0801 Military science, leadership and operational art^{CAN}

This instructional program class comprises any program that focuses on the skills required to be an officer in the Armed forces. These programs may include courses in: military psychology, leadership, professionalism and ethics; Canadian military history; military operations, tactics, strategy and resource management; nuclear, biological and chemical warfare (NBCW) defence; international affairs, foreign policy and Canadian defence policy; peacekeeping, peacemaking, and conflict analysis and negotiation; military and international law; joint operations planning and strategy; and national security and policy. Pre-officer training programs are also included in this class.

Illustrative example(s)

- Canadian forces staff school
- defence management and policy
- defence studies
- joint staff operations programme
- military and strategic studies
- military psychology and leadership
- military studies
- Regular Officer Training Plan
- security and defence management and policy
- war studies

Exclusion(s)

- defence engineering and management (See 29.0501-Military technologies and applied sciences)
- holocaust and genocide studies (See 30.2101-Holocaust and related studies)
- military history (See 54.0108-Military history)
- national security studies (See 45.0902-National security policy studies)
- organizational leadership (See 52.0213-Organizational leadership)
- peace studies and conflict resolution (See 30.0501-Peace studies and conflict resolution)
- Royal Canadian Mounted Police (See 43.0107-Criminal justice/police science)

29. Military technologies and applied sciences

This series comprises instructional programs that prepare individuals in specialized and advanced subject matter for the Armed forces and national security organizations, including intelligence operations, military applied sciences, and military technologies.

29.05 Military technologies and applied sciences^{CAN}

This subseries comprises instructional program class 29.0501.

29.0501 Military technologies and applied sciences^{CAN}

This instructional program class comprises any program that prepares individuals to undertake specialized and advanced technical and applied scientific responsibilities for the Armed forces and national security organizations. These programs may include courses in: military command, control and communications operations; military intelligence operations and systems; electronic warfare; combat systems engineering; operational oceanography, acoustics and undersea warfare; aerospace ground equipment and operations technology; missile, munitions and weapons systems; explosive ordnance and bomb disposal; military command, control and communications systems technology; radar communications and systems; and military computer information systems.

Illustrative example(s)

- defence engineering and management
- military ammunition technician
- military aviation systems technician
- military communications technician
- military electronics technician

- military engineering
- military intelligence
- military radar technician
- military search and rescue technician
- military technologies and applied sciences

Exclusion(s)

- geospatial intelligence (GEOINT) (See 43.0407-Geospatial intelligence)
- law enforcement intelligence analysis (See 43.0408-Law enforcement intelligence analysis)
- military and strategic studies (See 28.0801-Military science, leadership and operational art)
- military history (See 54.0108-Military history)

30. Multidisciplinary/interdisciplinary studies

This series comprises instructional programs that derive from two or more distinct programs to provide a cross-cutting focus on a subject concentration that is not subsumed under a single discipline or occupational field.

30.00 Inclusive postsecondary education

This subseries comprises instructional program class 30.0001.

30.0001 Inclusive postsecondary education

This instructional program class comprises any inclusive postsecondary education (IPSE) program that provides students with intellectual disabilities with academic enrichment, socialization, independent living skills, self-advocacy skills, and integrated work experiences and career skills that lead to gainful employment.

Illustrative example(s)

- community integration through cooperative education
- community integration through cooperative education (CICE)
- comprehensive transition and postsecondary program
- comprehensive transition and postsecondary program (CTP)
- inclusive post-secondary education (IPSE)
- inclusive postsecondary education
- transitional vocational program

Exclusion(s)

- inclusive education (See 13.1001-Special education and teaching, general)

30.01 Biological and physical sciences

This subseries comprises instructional program class 30.0101.

30.0101 Biological and physical sciences

This instructional program class comprises any program that is either a general synthesis of one or more of the biological and physical sciences, or a specialization which draws from the biological and physical sciences.

Illustrative example(s)

- astrobiology
- biological and physical sciences
- general science

Exclusion(s)

- arts and science (See 24.0102-General studies)
- biological engineering (See 14.4501-Biological/biosystems engineering)
- biological sciences (See 26.0101-Biology/biological sciences, general)
- biophysics (See 26.0203-Biophysics)
- natural sciences (See 30.1801-Natural sciences)
- physical sciences (See 40.0101-Physical sciences, general)
- science laboratory technology (See 41.0000-Science technologies/technicians, general)

30.05 Peace studies and conflict resolution

This subseries comprises instructional program class 30.0501.

30.0501 Peace studies and conflict resolution

This instructional program class comprises any program that focuses on the origins, resolution and prevention of international and inter-group conflicts. These programs include courses in peace research methods and related social scientific and psychological knowledge bases.

Illustrative example(s)

- conflict resolution studies
- peace and conflict resolution studies
- peace and conflict studies
- peace studies
- peace studies and conflict resolution

Exclusion(s)

- dispute resolution (See 30.2801-Dispute resolution)
- international human rights law (graduate level) (See 22.0209-International law and legal studies (LLM, LLD, JSD/SJD))
- international relations (See 45.0901-International relations and affairs)
- international studies (See 30.2001-International/globalization studies)
- war studies (See 28.0801-Military science, leadership and operational art)

30.06 Systems science and theory

This subseries comprises instructional program class 30.0601.

30.0601 Systems science and theory

This instructional program class comprises any program with a multidisciplinary approach to the analysis and solution of complex problems requiring a combined approach using data and models from the natural, social, technological, behavioural and life sciences, and other specialized fields.

Illustrative example(s)

- systems science
- systems science and theory

Exclusion(s)

- Earth systems science (See 30.3801-Earth systems science)
- information science (See 11.0401-Information science/studies)
- mathematics and computer science (See 30.0801-Mathematics and computer science)
- systems engineering (See 14.2701-Systems engineering)

30.08 Mathematics and computer science

This subseries comprises instructional program class 30.0801.

30.0801 Mathematics and computer science

This instructional program class comprises any program with a general synthesis of mathematics and computer science or a specialization which draws from mathematics and computer science.

Illustrative example(s)

- mathematics and computer science

Exclusion(s)

- accounting and computer science (See 30.1601-Accounting and computer science)
- computational mathematics (See 27.0303-Computational mathematics)
- computer science (See 11.0701-Computer science)
- mathematical sciences (See 27.0301-Applied mathematics, general)
- mathematics teacher education (See 13.1311-Mathematics teacher education)

30.10 Biopsychology

This subseries comprises instructional program class 30.1001.

30.1001 Biopsychology

This instructional program class comprises any program that focuses on biological and psychological linkages, especially the linkages between biochemical and biophysical activity and the functioning of the central nervous system.

Illustrative example(s)

- biological psychology
- biopsychology

Exclusion(s)

- psychobiology (See 42.2706-Behavioural neuroscience)

30.11 Gerontology

This subseries comprises instructional program class 30.1101.

30.1101 Gerontology

This instructional program class comprises any program that focuses on the human aging process and aged human populations, using the knowledge and methodologies of the social sciences, psychology and the biological and health sciences.

Illustrative example(s)

- gerontology

Exclusion(s)

- adult health nursing (See 51.3803-Adult health nurse/nursing)
- geriatric medicine - fellowship (See 61.0203-Geriatric medicine fellowship programs)
- gerontological services (See 19.0702-Adult development and aging)
- geropsychology (See 42.2809-Geropsychology)
- leisure studies (See 31.0101-Parks, recreation, and leisure studies)
- social work (See 44.0701-Social work, general)

30.12 Historic preservation and conservation

This subseries comprises instructional program classes 30.1201 to 30.1299.

30.1201 Historic preservation and conservation, general

This instructional program class comprises any program that focuses on the design and implementation of plans to restore and maintain historic buildings, districts, and landscapes in a way that balances conservation and preservation with commercial and development interests. These programs include courses in architectural history, building conservation, cultural resource management, economics, historical documentation and preservation, land-use and zoning codes, public policy, public relations, real estate law, and taxation.

Illustrative example(s)

- conservation of built heritage
- conservation of heritage buildings
- conservation of the built environment
- heritage building conservation
- historic preservation
- historic preservation and conservation

Exclusion(s)

- architectural conservation (See 04.0802-Architectural conservation)
- archival studies (See 25.0103-Archives/archival administration)
- art conservation (See 50.0703-Art history, criticism and conservation)

- conservation biology (See 26.1307-Conservation biology)
- heritage conservation (See 30.1202-Cultural resource management and policy analysis)
- museum studies (See 30.1401-Museology/museum studies)
- natural resources conservation (See 03.0101-Natural resources/conservation, general)

30.1202 Cultural resource management and policy analysis

This instructional program class comprises any program that focuses on the application of cultural studies, public policy analysis, and management skills to planning, promoting, and implementing programs to preserve and protect cultural heritage sites and artifacts. These programs include courses in historical preservation and conservation, business management, policy analysis, applied economics, public relations, applied history, historical archaeology, and environmental impact studies.

Illustrative example(s)

- cultural resource management
- cultural resource management and policy analysis
- heritage conservation

Exclusion(s)

- archaeology (See 45.0301-Archaeology)
- architectural conservation (See 04.0802-Architectural conservation)
- archival studies (See 25.0103-Archives/archival administration)
- conservation of heritage buildings (See 30.1201-Historic preservation and conservation, general)
- historic preservation and conservation (See 30.1201-Historic preservation and conservation, general)
- public policy analysis (See 44.0501-Public policy analysis, general)

30.1299 Historic preservation and conservation, other

This instructional program class comprises any program not listed above that relates to Historic preservation and conservation.

Illustrative example(s)

- other historic preservation and conservation

30.13 Medieval and renaissance studies

This subseries comprises instructional program class 30.1301.

30.1301 Medieval and renaissance studies

This instructional program class comprises any program that focuses on the study of the Medieval and/or Renaissance periods in European and circum-Mediterranean history from the perspective of various disciplines in the humanities and social sciences, including history and archaeology, as well as studies of period art and music.

Illustrative example(s)

- medieval and renaissance studies
- medieval studies
- renaissance studies

Exclusion(s)

- ancient history (See 54.0199-History, other)
- ancient studies (See 30.2201-Ancient studies/civilization)
- archaeology (See 45.0301-Archaeology)
- classical studies (See 30.2202-Classical, ancient Mediterranean and Near Eastern studies and archaeology)
- history (See 54.0101-History, general)

30.14 Museology/museum studies

This subseries comprises instructional program class 30.1401.

30.1401 Museology/museum studies

This instructional program class comprises any program that focuses on the attitudes, knowledge, and skills required to develop, prepare, organize, administer, conserve, store and retrieve artifacts, exhibits and entire collections in museums and galleries, and that prepares individuals to assume curatorial, technical and managerial positions in museums. These programs include courses in institutional management, acquisition, exhibit design, conservation, packing techniques, and public relations.

Illustrative example(s)

- applied museum studies
- museology
- museum curator
- museum management
- museum studies
- museum technology

Exclusion(s)

- archaeology (See 45.0301-Archaeology)
- archival studies (See 25.0103-Archives/archival administration)
- art conservation (See 50.0703-Art history, criticism and conservation)
- historic preservation and conservation (See 30.1201-Historic preservation and conservation, general)
- museum costumes (See 50.0510-Costume design)

30.15 Science, technology and society

This subseries comprises instructional program class 30.1501.

30.1501 Science, technology and society

This instructional program class comprises any program that focuses on the contemporary social and public policy ramifications of science and technology, the interrelationship of science and engineering with the public policy process, and the social and ethical dimensions of scientific and technological enterprises.

Illustrative example(s)

- science, technology and society
- social studies of science

Exclusion(s)

- bioethics (See 51.3201-Bioethics/medical ethics)
- ethics (See 38.0103-Ethics)
- history and philosophy of science and technology (See 54.0104-History and philosophy of science and technology)
- social ethics (See 38.0104-Applied and professional ethics)

30.16 Accounting and computer science

This subseries comprises instructional program class 30.1601.

30.1601 Accounting and computer science

This instructional program class comprises any program that combines accounting with computer science and/or computer studies.

Illustrative example(s)

- accounting and computer programming

- accounting and computer science
- computer accounting

Exclusion(s)

- accounting (See 52.0301-Accounting)
- computer science (See 11.0701-Computer science)
- computerized accounting (See 52.0302-Accounting technology/technician and bookkeeping)
- mathematics and computer science (See 30.0801-Mathematics and computer science)

30.17 Behavioural sciences

This subseries comprises instructional program class 30.1701.

30.1701 Behavioural sciences

This instructional program class comprises any program with a combined or undifferentiated focus on the social sciences, psychology, and biomedical sciences to study complex problems of human individual and social growth and behaviour.

Illustrative example(s)

- behavioural science
- behavioural sciences

Exclusion(s)

- animal behaviour (See 26.0708-Animal behaviour and ethology)
- applied behavioural sciences (See 42.2814-Applied behaviour analysis)
- behavioural neuroscience (See 42.2706-Behavioural neuroscience)
- behavioural science technology (See 42.2814-Applied behaviour analysis)
- cognitive science (See 30.2501-Cognitive science, general)
- health behaviour (See 51.2212-Behavioural aspects of health)
- human psychology (See 42.9999-Psychology, other)
- organizational behaviour (See 52.1003-Organizational behaviour studies)
- veterinary behaviourist - residency (See 60.0319-Veterinary behaviourist residency programs)

30.18 Natural sciences

This subseries comprises instructional program class 30.1801.

30.1801 Natural sciences

This instructional program class comprises any program with a combined or undifferentiated focus on one or more of the physical and biological sciences.

Illustrative example(s)

- natural sciences

Exclusion(s)

- biochemistry (See 26.0202-Biochemistry)
- biological and physical sciences (See 30.0101-Biological and physical sciences)
- biological sciences (See 26.0101-Biology/biological sciences, general)
- environmental science (See 03.0104-Environmental science)
- environmental studies (See 03.0103-Environmental studies)
- natural resources conservation (See 03.0101-Natural resources/conservation, general)
- physical sciences (See 40.0101-Physical sciences, general)

30.19 Nutrition sciences

This subseries comprises instructional program class 30.1901.

30.1901 Nutrition sciences

This instructional program class comprises any scientific program that focuses on the utilization of food for human growth and metabolism, in both normal and dysfunctional states, from the interdisciplinary perspective of the agricultural, human, biological, and biomedical sciences. These programs include courses in food science, biochemistry, physiology, dietetics, food and nutrition studies, biotechnology, biophysics, and the clinical sciences.

Illustrative example(s)

- human nutritional sciences
- nutrition and nutraceutical sciences
- nutrition science
- nutritional science

Exclusion(s)

- animal nutrition (See 01.0904-Animal nutrition)
- food and nutrition (See 19.0501-Foods, nutrition and wellness studies, general)
- food science (See 01.1001-Food science)
- holistic nutrition (See 51.3199-Dietetics and clinical nutrition services, other)
- human nutrition (See 19.0504-Human nutrition)
- nutritionist (See 51.3102-Clinical nutrition/nutritionist)
- registered dietitian (RD) (See 51.3101-Dietetics/dietitian (RD))

30.20 International/globalization studies

This subseries comprises instructional program class 30.2001.

30.2001 International/globalization studies

This instructional program class comprises any program that focuses on global and international issues from the perspective of the social sciences, social services, and related fields.

Illustrative example(s)

- global studies
- international studies

Exclusion(s)

- international business law (graduate level) (See 22.0210-International business, trade and tax law (LLM, LLD, JSD/SJD))
- international development (See 45.0604-Development economics and international development)
- international economics (See 45.0605-International economics)
- international law (graduate level) (See 22.0209-International law and legal studies (LLM, LLD, JSD/SJD))
- international public policy (See 44.0504-International public policy analysis)
- international relations (See 45.0901-International relations and affairs)
- peace studies and conflict resolution (See 30.0501-Peace studies and conflict resolution)

30.21 Holocaust and related studies

This subseries comprises instructional program class 30.2101.

30.2101 Holocaust and related studies

This instructional program class comprises any program that focuses on genocide in human history with particular reference to twentieth century genocides such as that of the Ottoman Armenians during World War I and the Nazi Holocaust during World War II. Programs also focus on topics such as survivor studies and counselling, war crimes research and prevention, reconciliation and compensation, ethical and spiritual issues, holocaust art and literature, and legacy and effect in relation to subsequent generations.

Illustrative example(s)

- holocaust and genocide studies
- holocaust and related studies
- holocaust studies

Exclusion(s)

- archival studies (See 25.0103-Archives/archival administration)
- European history (See 54.0103-European history)
- historical studies (See 54.0101-History, general)
- Jewish studies (See 38.0206-Jewish/Judaic studies)
- peace studies and conflict resolution (See 30.0501-Peace studies and conflict resolution)

30.22 Classical and ancient studies

This subseries comprises instructional program classes 30.2201 and 30.2202.

30.2201 Ancient studies/civilization

This instructional program class comprises any program that focuses on Western and non-Western cultures and related topics in the periods of prehistory and antiquity. These programs include courses in such disciplines as ancient languages, archaeology, history, art history, geography, population studies, environmental studies, religious studies, and the social sciences.

Illustrative example(s)

- ancient civilization
- ancient studies

Exclusion(s)

- ancient Greek and Roman studies (See 30.2202-Classical, ancient Mediterranean and Near Eastern studies and archaeology)
- ancient history (See 54.0199-History, other)
- archaeology (See 45.0301-Archaeology)
- medieval studies (See 30.1301-Medieval and renaissance studies)

30.2202 Classical, ancient Mediterranean and Near Eastern studies and archaeology

This instructional program class comprises any program that focuses on the study of the classical ancient civilizations of the ancient Near East, Europe, and the Mediterranean Sea such as Athens, Anatolia, Egypt, Greece, Israel, Mesopotamia, North Africa, and Rome. These programs include courses in ancient languages, ancient history, archaeology, anthropology, Greek and Roman mythology, philosophy, and religion.

Illustrative example(s)

- ancient Greek and Roman studies
- ancient Mediterranean and Near Eastern studies
- Byzantine civilization
- classical civilization
- classical Greek and Roman civilization
- classical Greek and Roman studies
- classical studies
- classical studies and archaeology
- classical, ancient Mediterranean and Near Eastern studies and archaeology
- classics

Exclusion(s)

- ancient history (See 54.0199-History, other)
- ancient studies (See 30.2201-Ancient studies/civilization)

- archaeology (See 45.0301-Archaeology)
- classical languages (See 16.1200-Classics and classical languages, literatures and linguistics, general)
- classical literature (See 16.1200-Classics and classical languages, literatures and linguistics, general)
- Near and Middle Eastern studies (See 05.0108-Near and Middle Eastern studies)

30.2299 Classical and ancient studies, other

This instructional program class comprises any program not listed above that relates to Classical and ancient studies.

Illustrative example(s)

- assyriology
- egyptology
- other classical and ancient studies

30.23 Intercultural/multicultural and diversity studies

This subseries comprises instructional program class 30.2301.

30.2301 Intercultural/multicultural and diversity studies

This instructional program class comprises any program that focuses on the dynamic social relations between and among majority and minority groups and different minority groups, and ways to promote mutual tolerance, inter-group cooperation, and the leadership and management of diverse groups and diversity issues in family, educational, recreational, and work settings. These programs include courses in ethnic and cultural studies, group psychology, sociology, anthropology, conflict resolution, human services and resources, and applications to various functional environments.

Illustrative example(s)

- intercultural and diversity studies
- intercultural studies
- multicultural and diversity studies

Exclusion(s)

- cultural anthropology (See 45.0204-Cultural anthropology)
- gay and lesbian studies (See 05.0208-Gay/lesbian studies)
- Indigenous studies (See 05.0202-Indigenous peoples of the Americas studies)
- international and intercultural communication (See 09.0907-International and intercultural communication)
- multicultural education (See 13.0202-Multicultural education)
- women's and gender studies (See 05.0207-Women's studies)

30.25 Cognitive science

This subseries comprises instructional program class 30.2501.

30.2501 Cognitive science, general

This instructional program class comprises any program that focuses on the study of the mind and the nature of intelligence from the interdisciplinary perspectives of computer science, philosophy, mathematics, psychology, neuroscience, and other disciplines. These programs include courses in mathematics and logic, cognitive process modelling, dynamic systems, learning theories, brain and cognition, neural networking, programming, and applications to topics such as language acquisition, computer systems, and perception and behaviour.

Illustrative example(s)

- cognitive science

Exclusion(s)

- behavioural science (See 30.1701-Behavioural sciences)

- cognitive and motivational psychology (See 42.2701-Cognitive psychology and psycholinguistics)
- neuroscience (See 26.1501-Neuroscience)

30.2502 Contemplative studies/inquiry

This instructional program class comprises any program that focuses on the philosophical, psychological, and scientific bases of human contemplative experience. These programs include courses in cognitive science, meditation, mindfulness, neuroscience, philosophy, psychology, and religion.

Illustrative example(s)

- contemplative inquiry
- contemplative studies

Exclusion(s)

- contemplative inquiry approach in education (See 13.0607-Learning sciences)
- mindfulness and meditation (See 51.3699-Movement and mind-body therapies, other)

30.2599 Cognitive science, other

This instructional program class comprises any program not listed above that relates to Cognitive science.

Illustrative example(s)

- cognitive science of language
- other cognitive science

30.26 Cultural studies/critical theory and analysis

This subseries comprises instructional program class 30.2601.

30.2601 Cultural studies/critical theory and analysis

This instructional program class comprises any interdisciplinary program that focuses on the analysis and critique of culture in its varied forms, including values, ideas, belief systems, and expressive acts, and the relationship between cultural forms, everyday life, and structures of power. These programs include courses in anthropology, communications, history, literary studies, philosophy, political economy, and sociology, as well as recent theories and methodologies such as semiotics, deconstruction, postcolonial studies, gender theory, and ethnography.

Illustrative example(s)

- comparative cultural studies
- critical theory and analysis
- cultural studies
- popular culture studies

Exclusion(s)

- comparative culture and area studies (See 05.9999-Area, ethnic, cultural, gender, and group studies, other)
- comparative group studies (See 05.0212-Comparative group studies)

30.27 Human biology

This subseries comprises instructional program class 30.2701.

30.2701 Human biology

This instructional program class comprises any interdisciplinary program that focuses on understanding the human being from the biological, social science, and humanities perspectives and that addresses contemporary issues related to biology and society, such as global health and disease, environmental policy, bioethics, and biotechnology.

Illustrative example(s)

- biology and society
- human biology

Exclusion(s)

- animal biology (See 26.0701-Zoology/animal biology, general)
- biology (See 26.0101-Biology/biological sciences, general)
- developmental biology (See 26.0404-Developmental biology and embryology)
- evolutionary biology (See 26.1303-Evolutionary biology)
- medical biology (See 26.0102-Biomedical sciences, general)
- population biology (See 26.1306-Population biology)
- reproductive biology (See 26.0905-Reproductive biology)

30.28 Dispute resolution

This subseries comprises instructional program class 30.2801.

30.2801 Dispute resolution

This instructional program class comprises any program that provides individuals with skills in negotiation, mediation, and arbitration, that can be applied to resolve disputes in a variety of settings, including business, legal, domestic, and labour relations.

Illustrative example(s)

- alternative dispute resolution
- dispute resolution
- negotiation and dispute resolution

Exclusion(s)

- labour relations (See 52.1002-Labour and industrial relations)
- peace studies and conflict resolution (See 30.0501-Peace studies and conflict resolution)

30.29 Maritime studies

This subseries comprises instructional program class 30.2901.

30.2901 Maritime studies

This instructional program class comprises any program that focuses on the history, science, policy issues, and literature of the ocean. These programs include courses in maritime history, maritime law, maritime literature, oceanography, maritime security, and maritime politics.

Illustrative example(s)

- maritime studies

Exclusion(s)

- marine navigation (See 49.0309-Nautical science/merchant marine officer)
- marine resources management (See 03.0205-Water, wetlands and marine resources management)
- maritime law (graduate level) (See 22.0223-Transportation law (LLM, LLD, JSD/SJD))
- maritime law enforcement (See 43.0122-Maritime law enforcement)
- oceanography (See 40.0607-Oceanography, chemical and physical)
- sea mobility (See 52.0209-Transportation/mobility management)

30.30 Computational science

This subseries comprises instructional program class 30.3001.

30.3001 Computational science

This instructional program class comprises any program that focuses on the study of scientific computing and its application. These programs include courses in scientific visualization, multi-scale analysis, grid generation, data analysis, applied mathematics, numerical algorithms, high performance parallel computing, and numerical modelling and simulation with applications in science, engineering and other disciplines in which computation plays an integral role.

Illustrative example(s)

- computational science
- scientific computing

Exclusion(s)

- computational biology (See 26.1104-Computational biology)
- computational chemistry (See 40.0512-Cheminformatics/chemistry informatics)
- computational geophysics (See 40.0603-Geophysics and seismology)
- computational linguistics (See 30.4801-Linguistics and computer science)
- computational mathematics (See 27.0303-Computational mathematics)
- computational neurobiology (See 26.1599-Neurobiology and neurosciences, other)
- computational neuroscience (See 26.1501-Neuroscience)
- computational physics (See 40.0810-Theoretical and mathematical physics)

30.31 Human computer interaction

This subseries comprises instructional program class 30.3101.

30.3101 Human computer interaction

This instructional program class comprises any interdisciplinary program that focuses on the study of the interaction between people and technology and how that technology impacts society, and combines disciplines within the fields of computing and information science (information systems, software engineering, artificial intelligence and design), engineering, and the behaviour sciences (cognitive science, cognitive psychology, sociology, organizational psychology, and social psychology). These programs include courses in information technology, cognitive and behavioural sciences, and systems design.

Illustrative example(s)

- human computer interaction

Exclusion(s)

- artificial intelligence (See 11.0102-Artificial intelligence)
- human centred technology design (See 11.0105-Human-centred technology design)

30.32 Marine sciences

This subseries comprises instructional program class 30.3201.

30.3201 Marine sciences

This instructional program class comprises any program that focuses on the study of biology, chemistry, geology and physics applied to marine, estuarine and coastal environments. These programs include courses in marine biogeochemistry, atmosphere and ocean dynamics, coastal ecology, coastal ocean processes, microbial ecology, marine ecosystem modelling, and polar microbiology.

Illustrative example(s)

- marine sciences

Exclusion(s)

- marine biology (See 26.1302-Marine biology and biological oceanography)

- marine engineering (See 14.2201-Naval architecture and marine engineering)
- marine environment technology (See 15.0507-Environmental/environmental engineering technology/technician)
- marine geology (See 40.0699-Geological and Earth sciences/geosciences, other)
- marine geomatics (See 45.0702-Geographic information science and cartography)
- marine navigation (See 49.0309-Nautical science/merchant marine officer)
- marine resources management (See 03.0205-Water, wetlands and marine resources management)

30.33 Sustainability studies

This subseries comprises instructional program class 30.3301.

30.3301 Sustainability studies

This instructional program class comprises any program that focuses on the concept of sustainability from an interdisciplinary perspective. These programs include courses in sustainable development, environmental policies, ethics, ecology, landscape architecture, city and regional planning, economics, natural resources, sociology, and anthropology.

Illustrative example(s)

- applied sustainable development
- environmental sustainability
- organizational and environmental sustainability
- sustainability studies
- sustainable development
- sustainable living

Exclusion(s)

- sustainable agriculture (See 01.0308-Agroecology and sustainable agriculture)
- sustainable aquaculture (See 01.0303-Aquaculture)
- sustainable energy engineering (See 14.4801-Energy systems engineering, general)
- sustainable management of forest resources (See 03.0506-Forest management/forest resources management)
- sustainable outdoor recreation (See 03.0207-Environmental/natural resource recreation and tourism)

30.34 Anthrozoology

This subseries comprises instructional program class 30.3401.

30.3401 Anthrozoology

This instructional program class comprises any program that combines anthropology and zoology in order to examine the relationship between animals and humans. These programs include courses in animal behaviour and communication, animal welfare, animal conservation, animal training, animal-assisted therapy techniques, biology, ethics, and education.

Illustrative example(s)

- anthrozoology

Exclusion(s)

- anthropology (See 45.0201-Anthropology, general)
- primatology (See 45.0202-Physical and biological anthropology)
- zoology (See 26.0701-Zoology/animal biology, general)

30.35 Climate science

This subseries comprises instructional program class 30.3501.

30.3501 Climate science

This instructional program class comprises any program that focuses on the scientific study of the climate system of the earth with emphasis on the physical, dynamical, and chemical interactions of the atmosphere, ocean, land, ice, and the terrestrial and marine biospheres. These programs include courses in biology, chemistry, climate analysis, climate change adaptation/mitigation, climate policy, ecology, energy development, environmental impacts, marine chemistry, meteorology, and oceanography.

Illustrative example(s)

- climate science
- climatology

Exclusion(s)

- atmospheric chemistry and climatology (See 40.0402-Atmospheric chemistry and climatology)
- Earth science (See 40.0601-Geology/Earth science, general)
- meteorology (See 40.0404-Meteorology)

30.36 Cultural studies and comparative literature

This subseries comprises instructional program class 30.3601.

30.3601 Cultural studies and comparative literature

This instructional program class comprises any program with a general synthesis of cultural studies and comparative literature or a specialization which draws from cultural studies and comparative literature. These programs include courses in anthropology, comparative linguistics, cultural studies, history, literary criticism, literary studies, philosophy, political economy, sociology, and textual studies.

Illustrative example(s)

- cultural studies and comparative literature

Exclusion(s)

- comparative literature (See 16.0104-Comparative literature)
- cultural studies (See 30.2601-Cultural studies/critical theory and analysis)

30.37 Design for human health

This subseries comprises instructional program class 30.3701.

30.3701 Design for human health

This instructional program class comprises any program that focuses on the impact of design and architecture on the health of individuals and larger populations, and how to create settings that promote health, healing, and well-being. These programs include courses in architecture, interior design, human health services, communication studies, medical and clinical innovations, behavioural and engineering sciences, hospitals and health systems, and environmental conditions that influence health.

Illustrative example(s)

- design for human health

Exclusion(s)

- design of healthcare environments (See 04.0402-Healthcare environment design/architecture)
- healthcare environment design (See 04.0402-Healthcare environment design/architecture)

30.38 Earth systems science

This subseries comprises instructional program class 30.3801.

30.3801 Earth systems science

This instructional program class comprises any program that focuses on the interaction of the Earth's oceanographic, atmospheric, and terrestrial systems. These programs include courses in biogeochemistry, climate dynamics, geographical information science (GIS), geophysics, hydrology, landscape ecology, meteorology, and satellite remote sensing analysis.

Illustrative example(s)

- Earth system science
- Earth systems science

Exclusion(s)

- Earth science (See 40.0601-Geology/Earth science, general)
- geographic information science (See 45.0702-Geographic information science and cartography)
- systems science (See 30.0601-Systems science and theory)

30.39 Economics and computer science

This subseries comprises instructional program class 30.3901.

30.3901 Economics and computer science

This instructional program class comprises any program that focuses on the theoretical and practical connections between computer science and economics. These programs include courses in data analysis, database design, data mining, computer algorithms, economics, econometrics, computer programming, mathematics, and statistics.

Illustrative example(s)

- business economics and computer science
- computer science and economics
- economics and computer science
- quantitative economics and computer science

Exclusion(s)

- computer science (See 11.0701-Computer science)
- economics (See 45.0601-Economics, general)

30.40 Economics and foreign language/literature

This subseries comprises instructional program class 30.4001.

30.4001 Economics and foreign language/literature

This instructional program class comprises any program with a general synthesis of economics and the language and literature of one or more countries or regions or a specialization which draws from economics and the language and literature of one or more countries or regions. These programs include courses in comparative economic systems, econometrics, economic theory, money and banking systems, international economics, international trade, linguistics, philology, and translation.

Illustrative example(s)

- African languages and economics
- economics and foreign language
- economics and foreign literature
- economics and Japanese language
- economics and Russian language
- German language and economics
- Hindi and economics
- language and international economics

- Mandarin and economics
- Spanish literature and economics

Exclusion(s)

- economics (See 45.0601-Economics, general)
- foreign languages and literature (See 16.0101-Indigenous and foreign languages and literatures, general)
- international economics (See 45.0605-International economics)

30.41 Environmental geosciences

This subseries comprises instructional program class 30.4101.

30.4101 Environmental geosciences

This instructional program class comprises any program that focuses on the scientific study of the environmental implications of geological processes and human activities on Earth. These programs include courses in environmental/natural resource management, geographic information systems (GIS), geology, hydrology, regulatory agency compliance, hazard identification and mitigation, environmental law, environmental policy, and sustainability studies.

Illustrative example(s)

- environmental geochemistry
- environmental geology
- environmental geoscience
- geology and environmental science
- hydrogeology and environmental science

Exclusion(s)

- environmental science (See 03.0104-Environmental science)
- environmental science and geography (See 30.4401-Geography and environmental studies)
- geochemistry (See 40.0602-Geochemistry)
- geodetic sciences (See 40.0699-Geological and Earth sciences/geosciences, other)
- geology (See 40.0601-Geology/Earth science, general)
- geosciences (See 40.0601-Geology/Earth science, general)
- hydrogeology (See 40.0605-Hydrology and water resources science)

30.42 Geoarchaeology

This subseries comprises instructional program class 30.4201.

30.4201 Geoarchaeology

This instructional program class comprises any program that focuses on the application of analytical techniques, concepts, and field methods from the earth sciences to solve archaeological questions related to human settlement, artifacts, site taphonomy, and paleoenvironments. These programs include courses in anthropology, ancient civilizations, archeology, geology, paleoclimatic reconstruction, sedimentology, and site taphonomic research.

Illustrative example(s)

- geoarchaeology
- geological archaeology
- geology and archaeology

Exclusion(s)

- archaeology (See 45.0301-Archaeology)
- geology (See 45.0601-Economics, general)

30.43 Geobiology

This subseries comprises instructional program class 30.4301.

30.4301 Geobiology

This instructional program class comprises any program that focuses on the scientific study of how living things interact with geological systems. These programs include courses in evolution of Earth systems, geochemistry, geology, geomicrobiology, marine chemistry, paleobiology, paleoecology, paleontology, and petrology.

Illustrative example(s)

- geobiology
- geological biology
- geology and biology
- geomicrobiology

Exclusion(s)

- biology (See 26.0101-Biology/biological sciences, general)
- geology (See 40.0601-Geology/Earth science, general)
- microbiology (See 26.0502-Microbiology, general)

30.44 Geography and environmental studies

This subseries comprises instructional program class 30.4401.

30.4401 Geography and environmental studies

This instructional program class comprises any program that focuses on interactions between people and the natural and built environments. These programs include courses in climate science, sustainability, environmental science and policy, research methods, geographic information systems (GIS), human geography, physical geography, remote sensing, and public policy.

Illustrative example(s)

- environmental and human geography
- environmental and physical geography
- environmental geography
- environmental geomatics
- environmental resource science and geography
- environmental science and geography
- environmental studies and geography
- geography and environmental management
- geography and environmental science
- geography and environmental studies

Exclusion(s)

- environmental science (See 03.0104-Environmental science)
- environmental studies (See 03.0103-Environmental studies)
- geography (See 45.0701-Geography)
- geology and environmental science (See 30.4101-Environmental geosciences)
- geomatics (See 45.0702-Geographic information science and cartography)

30.45 History and language/literature

This subseries comprises instructional program class 30.4501.

30.4501 History and language/literature

This instructional program class comprises any program with a general synthesis of history and the language and literature of one or more countries or regions or a specialization which draws from history and the language

and literature of one or more countries or regions. These programs include courses in historiography, historical research methods, linguistics, literature, philology, and studies of specific periods, issues and cultures.

Illustrative example(s)

- Canadian history and Indigenous languages
- Chinese language and history
- English language and history
- European history and languages
- European history and literature
- French language and history
- German history and language
- history and language
- history and literature
- language and art history

Exclusion(s)

- art history (See 50.0703-Art history, criticism and conservation)
- history (See 54.0101-History, general)
- languages and literature (See 16.0101-Indigenous and foreign languages and literatures, general)

30.46 History and political science

This subseries comprises instructional program class 30.4601.

30.4601 History and political science

This instructional program class comprises any program with a general synthesis of history and political science or a specialization which draws from history and political science. These programs include courses in comparative government and politics, historiography, historical research methods, political science, political theory, records administration, and systematic study of political institutions and behaviour.

Illustrative example(s)

- history and political science
- political history
- political science and history

Exclusion(s)

- history (See 54.0101-History, general)
- political science (See 45.1001-Political science and government, general)

30.47 Linguistics and anthropology

This subseries comprises instructional program class 30.4701.

30.4701 Linguistics and anthropology

This instructional program class comprises any program that focuses on the study of the anthropological, historical, and sociological context of language with a particular emphasis on language use and its role in shaping cultural and social diversity. These programs include courses in applied linguistics, data management, field methods, language heritage, socialization, structure, linguistic analysis, linguistic theory, and multilingualism.

Illustrative example(s)

- anthropology and linguistics
- linguistics and anthropology

Exclusion(s)

- anthropology (See 45.0201-Anthropology, general)

- linguistics (See 16.0102-Linguistics)

30.48 Linguistics and computer science

This subseries comprises instructional program class 30.4801.

30.4801 Linguistics and computer science

This instructional program class comprises any program that focuses on the relationship between computer and human language and computational techniques applied to natural language. These programs include courses in computer programming, human languages, linguistic analysis, logic, natural language processing, semantics, machine learning, psycholinguistics, software engineering, and syntax.

Illustrative example(s)

- computational linguistics
- computer linguistics
- computer science and linguistics
- linguistics and computer science
- mathematical linguistics

Exclusion(s)

- computer science (See 11.0701-Computer science)
- linguistics (See 16.0102-Linguistics)
- psycholinguistics (See 42.2701-Cognitive psychology and psycholinguistics)

30.49 Mathematical economics

This subseries comprises instructional program class 30.4901.

30.4901 Mathematical economics

This instructional program class comprises any program that focuses on the application of mathematical methods to the development of economic theory, models, and quantitative analysis. These programs include courses in data analysis, applied business economics, calculus, econometrics, linear algebra, microeconomic theory, probability, and statistical methods.

Illustrative example(s)

- applied math and economics
- applied mathematics and economics
- business economics and mathematics
- economics and mathematics
- math and business economics
- math economics
- mathematical economics
- mathematics and economics

Exclusion(s)

- applied mathematics (See 27.0301-Applied mathematics, general)
- business economics (See 52.0601-Business/managerial economics)
- econometrics (See 45.0603-Econometrics and quantitative economics)
- economics (See 45.0601-Economics, general)
- mathematics (See 27.0101-Mathematics, general)

30.50 Mathematics and atmospheric/oceanic science

This subseries comprises instructional program class 30.5001.

30.5001 Mathematics and atmospheric/oceanic science

This instructional program class comprises any program that focuses on the application of mathematics to atmospheric and oceanic problems. These programs include courses in chemistry, physics, atmospheric/ocean dynamics, climatology, weather simulation, climate modelling, mathematics, oceanography, and atmospheric science.

Illustrative example(s)

- math and oceanography
- mathematics and atmospheric science
- mathematics and ocean sciences
- mathematics and oceanic science
- oceanography and mathematics

Exclusion(s)

- atmospheric sciences (See 40.0401-Atmospheric sciences and meteorology, general)
- mathematics (See 27.0101-Mathematics, general)
- oceanography (See 40.0607-Oceanography, chemical and physical)

30.51 Integrated philosophy, politics, and economics

This subseries comprises instructional program class 30.5101.

30.5101 Integrated philosophy, politics, and economics

This instructional program class comprises any program that focuses on philosophical foundations, political institutions, collective behaviour, economic theory, and economic influences. These programs include courses in econometrics, logic, metaphysics, moral responsibility, philosophy of language, philosophy of perception, philosophy through history, reasoning and persuasion, and social epistemology.

Illustrative example(s)

- economics, politics, and philosophy
- philosophy, politics, and economics
- politics, philosophy, and economics

Exclusion(s)

- political economy (See 45.1004-Political economy)
- political philosophy (See 45.1001-Political science and government, general)
- political studies and economy (See 45.1004-Political economy)

30.52 Digital humanities and textual studies

This subseries comprises instructional program classes 30.5201 to 30.5299.

30.5201 Digital humanities and textual studies, general

This instructional program class comprises any program that focuses on digital textual editing, archiving, and publishing, and on the study of new media and computing platforms from the perspectives of the humanities and computer science. These programs include courses in archiving, computer programming, cultural studies, and textual criticism.

Illustrative example(s)

- digital humanities and textual studies
- textual studies and digital humanities

Exclusion(s)

- digital humanities (See 30.5202-Digital humanities)
- textual studies (See 30.5203-Textual studies)

30.5202 Digital humanities

This instructional program class comprises any program that focuses on the use of new technologies, advanced computing, and public engagement to investigate and analyse questions in the humanities. These programs include courses in anthropology, art, data mining and machine learning, design, digital archives, geospatial technologies, history, human-computer interface design, literature, markup languages, social media technologies, and software development.

Illustrative example(s)

- digital humanities

Exclusion(s)

- humanities (See 24.0103-Humanities/humanistic studies)

30.5203 Textual studies

This instructional program class comprises any program that focuses on the interconnected histories of digital or print texts and manuscripts for cultural and literary study. These programs include courses in archiving texts, bibliography, book and literary history, cultural studies, codicology, paleography, stemmatology, and textual criticism.

Illustrative example(s)

- textual studies

Exclusion(s)

- religious texts and commentaries (See 39.9999-Theology and religious vocations, other)

30.5299 Digital humanities and textual studies, other

This instructional program class comprises any program not listed above that relates to Digital humanities and textual studies.

Illustrative example(s)

- other digital humanities and textual studies

30.53 Thanatology

This subseries comprises instructional program class 30.5301.

30.5301 Thanatology

This instructional program class comprises any program that focuses on the biological, philosophical, psychological, sociological, and theological aspects of death, dying, and bereavement. These programs include courses in counselling, ethics, grief, palliative and hospice care, philosophy, thanatology, and theology.

Illustrative example(s)

- death studies
- thanatology

Exclusion(s)

30.70 Data science

This subseries comprises instructional program classes 30.7001 to 30.7099.

30.7001 Data science, general

This instructional program class comprises any program that focuses on the analysis of large scale data sources from the interdisciplinary perspectives of applied statistics, computer science, data storage, data representation, data modelling, mathematics, and statistics. These programs include courses in computer algorithms, computer programming, data management, data mining, information policy, information retrieval, machine learning, mathematical modelling, quantitative analysis, statistics, trend spotting, and visual analytics.

Illustrative example(s)

- big data
- data science

Exclusion(s)

- big data analytics (See 30.7101-Data analytics, general)
- computer science (See 11.0701-Computer science)
- data analytics (See 30.7101-Data analytics, general)
- data entry (See 11.0601-Data entry/microcomputer applications, general)
- data mining (See 11.0802-Data modelling/warehousing and database administration)
- data processing (See 11.0301-Data processing and data processing technology/technician)

30.7099 Data science, other

This instructional program class comprises any program not listed above that relates to Data science.

Illustrative example(s)

- data science and analytics
- health data science and biostatistics
- other data science

30.71 Data analytics

This subseries comprises instructional program classes 30.7101 to 30.7199.

30.7101 Data analytics, general

This instructional program class comprises any program that prepares individuals to apply data science to generate insights from data and identify and predict trends. These programs include courses in computer databases, computer programming, inference, machine learning, optimization, probability and stochastic models, statistics, strategy, uncertainty quantification, and visual analytics.

Illustrative example(s)

- analytics
- big data analytics
- data analytics

Exclusion(s)

- analysis and functional analysis (See 27.0103-Analysis and functional analysis)
- big data (See 30.7001-Data science, general)
- data mining (See 11.0802-Data modelling/warehousing and database administration)
- data processing (See 11.0301-Data processing and data processing technology/technician)
- data science (See 30.7001-Data science, general)

30.7102 Business analytics

This instructional program class comprises any program that prepares individuals to apply data science to solve business challenges. These programs include courses in machine learning, optimization methods, computer algorithms, probability and stochastic models, information economics, logistics, strategy, consumer behaviour, marketing, and visual analytics.

Illustrative example(s)

- business analytics

Exclusion(s)

- business statistics (See 52.1302-Business statistics)
- data analytics (See 30.7101-Data analytics, general)
- data science (See 30.7001-Data science, general)
- management science (See 52.1301-Management science)

30.7103 Data visualization

This instructional program class comprises any program that prepares individuals to organize and derive meaning from data by using visual presentation tools and techniques. These programs include courses in cognitive science, computer programming, data management, data visualization theory, graphic design, infographics, perceptual psychology, statistics, and visual design.

Illustrative example(s)

- data visualization
- graphic representation of data
- infographics and data visualization design

Exclusion(s)

- computer graphics (See 11.0803-Computer graphics)
- data analytics (See 30.7101-Data analytics, general)
- visual and performing arts (See 50.0101-Visual and performing arts, general)
- visual communications (See 50.0401-Design and visual communications, general)

30.7104 Financial analytics

This instructional program class comprises any program that focuses on financial big data modelling from algorithms to cloud-based data-driven financial technologies. These programs include courses in financial analytics, financial data processing, knowledge management, data visualization, effective decision communication, machine learning for finance, statistical inference and dynamic modelling on financial data, and project management.

Illustrative example(s)

- financial analytics

Exclusion(s)

- data analytics (See 30.7101-Data analytics, general)
- data science (See 30.7001-Data science, general)
- financial mathematics (See 27.0305-Financial mathematics)
- quantitative and computational finance (See 27.0305-Financial mathematics)

30.7199 Data analytics, other

This instructional program class comprises any program not listed above that relates to Data analytics.

Illustrative example(s)

- other data analytics

30.99 Multidisciplinary/interdisciplinary studies, other

This subseries comprises instructional program class 30.9999.

30.9999 Multidisciplinary/interdisciplinary studies, other

This instructional program class comprises any program not listed above that relates to Multidisciplinary/interdisciplinary studies.

Illustrative example(s)

- environment and business
- interdisciplinary studies
- multidisciplinary studies
- other multidisciplinary/interdisciplinary studies
- quantum information processing

Exclusion(s)

- ancient studies (See 30.2201-Ancient studies/civilization)
- behavioural science (See 30.1701-Behavioural sciences)
- biological and physical sciences (See 30.0101-Biological and physical sciences)
- intercultural studies (See 30.2301-Intercultural/multicultural and diversity studies)
- international studies (See 30.2001-International/globalization studies)
- mathematics and computer science (See 30.0801-Mathematics and computer science)

31. Parks, recreation, leisure, fitness, and kinesiology

This series comprises instructional programs that focus on the principles and practices of managing parks and other recreational and fitness facilities; providing recreational, leisure and fitness services; and the study of human kinesiology and fitness.

31.01 Parks, recreation, and leisure studies

This subseries comprises instructional program class 31.0101.

31.0101 Parks, recreation, and leisure studies

This instructional program class comprises any program that focuses on the principles underlying recreational and leisure activities, and the practices involved in providing indoor and outdoor recreational facilities and services for the general public.

Illustrative example(s)

- community recreation
- leisure sciences
- leisure studies
- parks and recreation
- recreation and leisure
- recreation facilitator
- recreation leadership
- recreation studies
- recreation technology

Exclusion(s)

- ecotourism (See 03.0207-Environmental/natural resource recreation and tourism)
- outdoor recreation technician (See 31.0601-Outdoor education)
- parks management (See 31.0301-Parks, recreation, and leisure facilities management, general)
- recreation facilitator for older adults (See 51.2309-Therapeutic recreation/recreational therapy)
- therapeutic recreation (See 51.2309-Therapeutic recreation/recreational therapy)
- tourism and travel services management (See 52.0903-Tourism and travel services management)

31.03 Parks, recreation, and leisure facilities management

This subseries comprises instructional program classes 31.0301 to 31.0399.

31.0301 Parks, recreation, and leisure facilities management, general

This instructional program class comprises any program that prepares individuals to develop and manage park facilities and other indoor and outdoor recreation and leisure facilities. These programs include courses in supervising support personnel, health and safety standards, public relations, and basic business and marketing principles.

Illustrative example(s)

- action sports park development
- arena management
- leisure facilities management
- marina management
- park facilities development
- parks management
- recreation club management
- recreation facilities development
- recreation facilities management
- sports centre management

Exclusion(s)

- ecotourism (See 03.0207-Environmental/natural resource recreation and tourism)
- facilities management (See 19.0604-Facilities planning and management)
- forest management (See 03.0506-Forest management/forest resources management)
- golf club management (See 31.0302-Golf course operation and grounds management)
- land use planning and development (See 03.0206-Land use planning and management/development)
- natural resource management (See 03.0204-Environmental/natural resource economics)
- real estate development (See 04.1001-Real estate development)
- regional and urban development (See 04.0301-City/urban, community and regional planning)
- sports and fitness management (See 31.0504-Sport and fitness administration/management)

31.0302 Golf course operation and grounds management

This instructional program class comprises any program that prepares individuals to manage the operation of golf courses. These programs include courses in turf grass science and management, golf course design and construction, grounds equipment and operation, pest control, and grounds management.

Illustrative example(s)

- golf club management
- golf club management and operations
- golf course and greenspace management
- golf course grounds management
- golf course maintenance
- golf course management
- golf course operations
- golf course technology
- greenskeeping

Exclusion(s)

- golf and sports turf management (See 01.0607-Turf and turfgrass management)
- greenspace management (See 01.0605-Landscaping and groundskeeping)
- recreation facilities management (See 31.0301-Parks, recreation, and leisure facilities management, general)
- sports and fitness management (See 31.0504-Sport and fitness administration/management)

31.0399 Parks, recreation, and leisure facilities management, other

This instructional program class comprises any program not listed above that relates to Parks, recreation, and leisure facilities management.

Illustrative example(s)

- ice technician
- other parks, recreation, and leisure facilities management

31.05 Sports, kinesiology, and physical education/physical fitness

This subseries comprises instructional program classes 31.0501 to 31.0599.

31.0501 Sports, kinesiology, and physical education/physical fitness, general

This instructional program class comprises any general program that focuses on activities and principles that promote physical fitness, achieve and maintain athletic prowess, and accomplish related research and service goals. These programs include courses in human movement studies, motivation studies, rules and practice of specific sports, exercise and fitness principles and techniques, basic athletic injury prevention and treatment, and organizing and leading fitness and sports programs.

Illustrative example(s)

- athletic coach
- health and fitness studies
- health and physical fitness
- physical activity and sport studies
- physical education
- physical education and health
- physical education and recreation
- sport and exercise studies
- sport coach

Exclusion(s)

- aerobics instructor (See 31.0507-Physical fitness technician)
- health teacher education (See 13.1307-Health teacher education)
- performance and sport psychology (See 42.2815-Performance and sport psychology)
- physical education teacher (See 13.1314-Physical education teaching and coaching)
- physical fitness and leisure, management (See 31.0504-Sport and fitness administration/management)
- physical fitness technician (See 31.0507-Physical fitness technician)
- sports and exercise (See 36.0108-Sports and exercise (not for credit))
- sports injury therapist (See 51.0913-Athletic training/trainer)

31.0504 Sport and fitness administration/management

This instructional program class comprises any program that prepares individuals to apply business, coaching and physical education principles to the organization, administration and management of athletic programs and teams, fitness/rehabilitation facilities and health clubs, sport recreation services, and related services. These programs include courses in program planning and development; business and financial management principles; sales, marketing and recruitment; event promotion, scheduling and management; facilities management; public relations; legal aspects of sports; and applicable health and safety standards.

Illustrative example(s)

- leisure and recreation services management
- leisure and sport management
- outdoor recreation management
- physical fitness and leisure, management
- recreation administration

- recreation and sport management
- recreation and sports administration
- sports administration
- sports and fitness management
- sports management

Exclusion(s)

- arena management (See 31.0301-Parks, recreation, and leisure facilities management, general)
- events and convention management (See 52.0907-Meeting and event planning)
- facilities management (See 19.0604-Facilities planning and management)
- fitness trainer (See 31.0507-Physical fitness technician)
- golf club management and operations (See 31.0302-Golf course operation and grounds management)
- human kinetics (See 31.0505-Exercise science and kinesiology)
- resort management (See 52.0906-Resort management)
- sport and event marketing (See 52.1910-Hospitality and recreation marketing operations)
- sport and exercise studies (See 31.0501-Sports, kinesiology, and physical education/physical fitness, general)
- sports studies (See 31.0508-Sports studies)
- turfgrass management (See 01.0607-Turf and turfgrass management)

31.0505 Exercise science and kinesiology

This instructional program class comprises any scientific program that focuses on the anatomy, physiology, biochemistry, and biophysics of human movement, and applications to exercise and therapeutic rehabilitation. These programs include courses in biomechanics, motor behaviour, motor development and coordination, motor neurophysiology, performance research, rehabilitative therapies, the development of diagnostic and rehabilitative methods and equipment, and related analytical methods and procedures in applied exercise and therapeutic rehabilitation.

Illustrative example(s)

- exercise science
- human kinetics
- kinanthropology
- kinesiology
- kinesiology and exercise science
- kinesiology and health science
- kinesiology and sport studies

Exclusion(s)

- athletic trainer (See 51.0913-Athletic training/trainer)
- biomechanics (See 26.0913-Biomechanics)
- exercise physiology and kinesiology (See 26.0908-Exercise physiology)
- kinesiotherapy (See 51.2311-Kinesiotherapy/kinesiotherapist)
- performance and sport psychology (See 42.2815-Performance and sport psychology)
- physical activity and sport studies (See 31.0501-Sports, kinesiology, and physical education/physical fitness, general)
- physical therapy (See 51.2308-Physical therapy/therapist)

31.0507 Physical fitness technician

This instructional program class comprises any program that prepares individuals for employment in health and fitness clubs, wellness centres, public and private recreation facilities, hospitals and corporate fitness programs where they will perform a variety of instructional and administrative duties. These programs include courses in human anatomy and physiology, fitness techniques, exercise science, personal training, nutrition, and customer service.

Illustrative example(s)

- aerobics instructor
- fitness instructor
- fitness leadership
- fitness technician
- fitness trainer
- fitness training
- personal fitness trainer
- personal trainer
- physical fitness technician
- physical trainer

Exclusion(s)

- athletic trainer (See 51.0913-Athletic training/trainer)
- health and fitness studies (See 31.0501-Sports, kinesiology, and physical education/physical fitness, general)
- physical education teacher (See 13.1314-Physical education teaching and coaching)
- physical fitness (See 31.0501-Sports, kinesiology, and physical education/physical fitness, general)
- physical fitness and leisure, management (See 31.0504-Sport and fitness administration/management)
- sports studies (See 31.0508-Sports studies)

31.0508 Sports studies

This instructional program class comprises any program that focuses on the psychological, sociological, and historical aspects of sport and physical activity. These programs include courses in theory of sport, sport psychology, sport in society, gender and race/ethnicity and sport, and sports history.

Illustrative example(s)

- sports studies

Exclusion(s)

- fitness trainer (See 31.0507-Physical fitness technician)
- sports communication (See 09.0906-Sports communication)
- sports management (See 31.0504-Sport and fitness administration/management)
- sports marketing (See 52.1910-Hospitality and recreation marketing operations)

31.0599 Sports, kinesiology, and physical education/physical fitness, other

This instructional program class comprises any program not listed above that relates to Sports, kinesiology, and physical education/physical fitness.

Illustrative example(s)

- applied sport science and coaching
- other sports, kinesiology, and physical education/physical fitness
- sports equipment specialist

Exclusion(s)

- kinesiotherapy (See 51.2311-Kinesiotherapy/kinesiotherapist)
- physical therapy (See 51.2308-Physical therapy/therapist)

31.06 Outdoor education

This subseries comprises instructional program class 31.0601.

31.0601 Outdoor education

This instructional program class comprises any program that prepares individuals to work as an educator, instructor or facilitator in parks, recreational facilities, camps and other outdoor settings. These programs include courses in leadership skills, wilderness survival skills, first aid, group processes, counselling techniques, environmental studies and instruction in recreational activities such as rock climbing, ropes courses, backpacking, kayaking and canoeing.

Illustrative example(s)

- backpacking instructor
- canoeing instructor
- hiking guide
- outdoor adventure course instructor
- outdoor education
- outdoor recreation leadership
- outdoor recreation technician
- rock climbing instructor
- ropes courses facilitator
- wilderness guide

Exclusion(s)

- hunting and fishing guide (See 03.0207-Environmental/natural resource recreation and tourism)
- organizational leadership (See 52.0213-Organizational leadership)
- parks, recreation and leisure (See 31.0101-Parks, recreation, and leisure studies)
- rope access technician (See 46.9999-Construction trades, other)
- sustainable outdoor recreation (See 03.0207-Environmental/natural resource recreation and tourism)
- wooden canoe building (See 48.0704-Wooden boatbuilding technology/technician)

31.99 Parks, recreation, leisure, fitness, and kinesiology, other

This subseries comprises instructional program class 31.9999.

31.9999 Parks, recreation, leisure, fitness, and kinesiology, other

This instructional program class comprises any program not listed above that relates to Parks, recreation, leisure, fitness, and kinesiology.

Illustrative example(s)

- other parks, recreation, leisure and fitness studies

Exclusion(s)

- casino management (See 52.0908-Casino management)
- radio and television (See 09.0701-Radio and television)

32. Basic skills and general exam preparation (not for credit)

This series comprises instructional programs that focus on the fundamental knowledge and skills that individuals need to function productively in society.

32.01 Basic skills (not for credit)

This subseries comprises instructional program classes 32.0101 to 32.0199.

32.0101 Basic skills, general (not for credit)

This instructional program class comprises any general program that focuses on the fundamental knowledge and skills that individuals need to function productively in society.

Illustrative example(s)

- adult basic education (except high school equivalency) (not for credit)
- basic skills, general (not for credit)
- literacy and basic skills (not for credit)
- literacy and essential skills (not for credit)
- literacy and numeracy (not for credit)

Exclusion(s)

- adult basic education (high school equivalency) (See 53.0201-High school equivalency/GED certificate programs)
- developmental services worker (DSW) (See 19.0710-Developmental services worker)

32.0104 Numeracy and computational skills (not for credit)

This instructional program class comprises any program that focuses on the development of computing and other mathematical reasoning abilities and skills.

Illustrative example(s)

- numeracy (not for credit)
- numeracy and computational skills (not for credit)

Exclusion(s)

- mathematics (See 27.0101-Mathematics, general)

32.0105 Job-seeking/changing skills (not for credit)

This instructional program class comprises any program that focuses on the development of skills related to job searches and self-marketing. These programs include courses in assessing one's own capabilities and skills; filling out an application; and handling an interview.

Illustrative example(s)

- job-changing skills (not for credit)
- job-seeking skills (not for credit)

32.0107 Career exploration/awareness skills (not for credit)

This instructional program class comprises any program that focuses on the linkage between individual capabilities and needs and the job market. These programs include courses in the variety and scope of available employment, how to access job information, and techniques of self-analysis.

Illustrative example(s)

- career awareness skills (not for credit)
- career exploration skills (not for credit)

32.0108 Literacy and communication skills (not for credit)

This instructional program class comprises any program that focuses on the fundamental knowledge and skills in reading, writing and speaking that individuals need to function productively in society.

Illustrative example(s)

- literacy (not for credit)
- literacy and communication skills (not for credit)

Exclusion(s)

- adult literacy instructor (See 13.1502-Adult literacy tutor/instructor)
- communication studies (See 09.0100-Communication, general)
- English writing (See 23.1301-English writing, general)

- French writing (See 55.1301-French writing, general)

32.0109 Second language learning (not for credit)

This instructional program class comprises any program that focuses on the development of proficiency in reading, writing, and speaking a language or languages other than the mother tongue, that are needed to perform day-to-day tasks. These programs include courses in the use of basic communication skills to develop and transmit ideas and thoughts. Note: These programs are not for academic credit towards a postsecondary credential. For second language programs that are for academic credit towards a postsecondary credential see sub-series 16.17.

Illustrative example(s)

- English as a second language (not for credit)
- French as a second language (not for credit)
- second language learning (not for credit)

Exclusion(s)

- English as a second language (See 16.1701-English as a second language)
- French as a second language (See 16.1702-French as a second language^{CAN})
- Native as a second language (See 16.1799-Second language learning, other)

32.0110 Basic computer skills (not for credit)

This instructional program class comprises any program that focuses on the knowledge and skills needed to operate a computer, including computer concepts, keyboarding and mouse skills, using computer hardware and software, and basic troubleshooting.

Illustrative example(s)

- basic computer applications (not for credit)
- basic computer skills (not for credit)

Exclusion(s)

- microcomputer applications (See 11.0601-Data entry/microcomputer applications, general)
- word processing (See 11.0602-Word processing)

32.0111 Workforce development and training (not for credit)

This instructional program class comprises any program that focuses on learning or upgrading basic skills in order to enhance job performance, promote career development, or train for a new job.

Illustrative example(s)

- workforce development and training (not for credit)

32.0112 Accent reduction/modification (not for credit)

This instructional program class comprises any program that focuses on accent modification and effective pronunciation in order to assist individuals in changing their accents/dialects. These programs include courses in changing speech patterns, intonation, phonology, pronunciation, rhythm, semantics, syntax, vocabulary, voice production, and word order.

Illustrative example(s)

- accent modification (not for credit)
- accent reduction (not for credit)

32.0199 Basic skills, other (not for credit)

This instructional program class comprises any program not listed above that relates to Basic skills.

Illustrative example(s)

- other basic skills (not for credit)

32.02 Exam preparation and test-taking skills (not for credit)

This subseries comprises instructional program classes 32.0201 to 32.0299.

32.0201 Exam preparation and test-taking skills, general (not for credit)

This instructional program class comprises any program that focuses on study skills and exam-taking skills.

Illustrative example(s)

- general exam preparation (not for credit)
- general test-taking skills (not for credit)

32.0202 High school equivalency/GED exam preparation (not for credit)

This instructional program class comprises any program that focuses on the study and exam-taking skills associated with preparation for the General Educational Development test (GED test) or high school equivalency examinations.

Illustrative example(s)

- GED exam preparation (not for credit)
- GED test preparation (not for credit)
- high school equivalency exam preparation (not for credit)
- secondary school equivalency exam preparation (not for credit)

Exclusion(s)

- high school equivalency certificate (See 53.0201-High school equivalency/GED certificate programs)

32.0203 Undergraduate entrance/placement examination preparation (not for credit)

This instructional program class comprises any program that focuses on the study and exam-taking skills associated with preparation for undergraduate college/university entrance or placement examinations.

Illustrative example(s)

- undergraduate entrance examination preparation (not for credit)
- undergraduate placement examination preparation (not for credit)

32.0204 Graduate/professional school entrance examination preparation (not for credit)

This instructional program class comprises any program that focuses on the study and exam-taking skills associated with preparation for graduate and professional school entrance examinations.

Illustrative example(s)

- graduate school entrance examination preparation (not for credit)
- professional school entrance examination preparation (not for credit)

32.0205 Professional certification/licensure examination preparation (not for credit)

This instructional program class comprises any program that focuses on the study and exam-taking skills associated with preparation for professional certification and licensure examinations.

Illustrative example(s)

- professional certification examination preparation (not for credit)
- professional licensure examination preparation (not for credit)

32.0299 Exam preparation and test-taking skills, other (not for credit)

This instructional program class comprises any program not listed above that relates to Exam preparation and test-taking skills.

Illustrative example(s)

- other general exam preparation and test-taking skills (not for credit)

32.99 Basic skills and general exam preparation, other (not for credit)

This subseries comprises instructional program class 32.9999.

32.9999 Basic skills and general exam preparation, other (not for credit)

This instructional program class comprises any program not listed above that relates to Basic skills and general exam preparation.

Illustrative example(s)

- other combined basis skills and general exam preparation (not for credit)

33. Citizenship activities (not for credit)

This series comprises instructional programs that prepare individuals for citizenship, and provide instruction in how citizens may engage in civic activities.

33.01 Citizenship activities (not for credit)

This subseries comprises instructional program classes 33.0101 to 33.0199.

33.0101 Citizenship activities, general (not for credit)

This instructional program class comprises any program that generally prepares individuals for citizenship, and focuses on how citizens may engage in civic activities.

Illustrative example(s)

- citizenship activities, general (not for credit)

33.0102 American citizenship education (not for credit)

This instructional program class comprises any program that prepares individuals to take the oath of United States citizenship and to exercise the attendant rights and responsibilities of citizenship.

Illustrative example(s)

- American citizenship education (not for credit)

33.0103 Community awareness (not for credit)

This instructional program class comprises any program that focuses on local government and history, current issues, and on how individuals can keep abreast of important issues that may affect them.

Illustrative example(s)

- community awareness (not for credit)

Exclusion(s)

- community organization and advocacy (See 44.0201-Community organization and advocacy)
- family and community services (See 19.0707-Family and community services)

33.0104 Community involvement (not for credit)

This instructional program class comprises any program that focuses on how individuals may become actively involved in the social, economic and political issues and events affecting them; and the roles and methods that are available to influence community life and public policy.

Illustrative example(s)

- community involvement (not for credit)

Exclusion(s)

- community organization and advocacy (See 44.0201-Community organization and advocacy)
- community wellness (See 19.0707-Family and community services)

33.0105 Canadian citizenship education (not for credit)

This instructional program class comprises any program that prepares individuals to take the oath of Canadian citizenship and to exercise the attendant rights and responsibilities of citizenship.

Illustrative example(s)

- Canadian citizenship education (not for credit)

33.0106 Personal emergency preparedness (not for credit)

This instructional program class comprises any program that focuses on the leadership and management skills needed to prepare and respond to critical threats such as natural disasters, hazardous spills, and security threats. These programs include courses in communication, community preparedness, decision-making, disaster management, disaster recovery, disaster preparation, emergency planning and preparation, resource planning, and risk and hazard impact.

Illustrative example(s)

- personal emergency preparedness (not for credit)

33.0199 Citizenship activities, other (not for credit)

This instructional program class comprises any program not listed above that relates to Citizenship activities.

Illustrative example(s)

- other citizenship activities (not for credit)

34. Health-related knowledge and skills (not for credit)

This series comprises instructional programs that focus on the promotion of personal and family health.

34.01 Health-related knowledge and skills (not for credit)

This subseries comprises instructional program classes 34.0102 to 34.0199.

34.0102 Birthing and parenting knowledge and skills (not for credit)

This instructional program class comprises any program that focuses on all facets of the mother's and father's roles in family planning, prenatal preparation and care, the birthing experience, post-natal care and the raising of children.

Illustrative example(s)

- birthing and parenting knowledge and skills (not for credit)
- parenting course (not for credit)
- parenting skills (not for credit)
- prenatal class (not for credit)

Exclusion(s)

- child growth, care and development studies (See 19.0706-Child development)
- maternity nursing (See 51.3806-Maternal/child health and neonatal nurse/nursing)
- midwifery (See 51.3401-Direct entry midwifery (LM, CPM))
- nursing midwifery (See 51.3807-Nurse midwife/nursing midwifery)
- parenting education teacher (See 19.0712-Parent education services)

34.0103 Personal health improvement and maintenance (not for credit)

This instructional program class comprises any program that focuses on the principles, techniques, and methods by which individuals can maintain or improve their overall physical and emotional well-being, as well as work on specific areas of personal health.

Illustrative example(s)

- personal health improvement and maintenance (not for credit)

34.0104 Addiction prevention and treatment (not for credit)

This instructional program class comprises any program that focuses on how individuals can avoid addictive substances and behaviours; the methods by which individuals can be treated for various addictions and related behaviour problems; and the knowledge and coping skills needed by relatives and associates of addicted individuals.

Illustrative example(s)

- addiction prevention and treatment (not for credit)

34.0105 Meditation/mind-body wellness (not for credit)

This instructional program class comprises any program that focuses on meditation and mindfulness training and how these techniques can enhance brain function, regulate emotions, reduce stress, and increase compassion. These programs include courses in alternative medicine, innovative and ancient healing practices, inspired creativity and the arts, meditation, mindfulness, neuroscience, religious belief systems, spiritual psychology, therapeutic movement, and visualization meditation.

Illustrative example(s)

- meditation (not for credit)
- mind-body wellness (not for credit)

34.0199 Health-related knowledge and skills, other (not for credit)

This instructional program class comprises any program not listed above that relates to Health-related knowledge and skills.

Illustrative example(s)

- cardiopulmonary resuscitation (CPR) (not for credit)
- first aid (not for credit)
- other health-related knowledge and skills (not for credit)

35. Interpersonal and social skills (not for credit)

This series comprises instructional programs that focus on the development of methods and skills for effective interactions with others in a variety of settings (private, social, and business settings).

35.01 Interpersonal and social skills (not for credit)

This subseries comprises instructional program classes 35.0101 to 35.0199.

35.0101 Interpersonal and social skills, general (not for credit)

This instructional program class comprises any general program that focuses on how to effectively interact with others in private, social and business settings.

Illustrative example(s)

- interpersonal and social skills, general (not for credit)

35.0102 Interpersonal relationships skills (not for credit)

This instructional program class comprises any program that focuses on how to increase one's ability to establish and maintain mutually satisfactory ties with other human beings.

Illustrative example(s)

- interpersonal relationships skills (not for credit)

35.0103 Business and social skills (not for credit)

This instructional program class comprises any program that focuses on how to increase one's ability to function effectively in social and business settings where interpersonal communication is required.

Illustrative example(s)

- business and social skills (not for credit)

35.0105 Life coaching (not for credit)

This instructional program class comprises any program that focuses on assisting individuals in achieving personal goals such as life transitions, relationships, physical well-being, emotional well-being, and career choices. These programs include courses in career and vocational development, coaching methodologies, coaching research techniques, group coaching, leadership techniques, and personal coaching.

Illustrative example(s)

- life coach (not for credit)
- life coaching (not for credit)

Exclusion(s)

- career coaching (See 52.1006-Executive/career coaching)

35.0199 Interpersonal and social skills, other (not for credit)

This instructional program class comprises any program not listed above that relates to Interpersonal and social skills.

Illustrative example(s)

- other interpersonal and social skills (not for credit)

36. Leisure and recreational activities and non-commercial vehicle operation (not for credit)

This series comprises instructional programs that focus on the development of an appreciation for and competency in recreational and leisure-related activities and non-commercial vehicle operation.

36.01 Leisure and recreational activities (not for credit)

This subseries comprises instructional program classes 36.0101 to 36.0199.

36.0101 Leisure and recreational activities, general (not for credit)

This instructional program class comprises any general program that focuses on the development of an appreciation for and competency in recreational and leisure-related activities.

Illustrative example(s)

- leisure and recreational activities, general (not for credit)

36.0102 Handicrafts and model-making (not for credit)

This instructional program class comprises any program that focuses on the fashioning of objects of decoration, utility or representation from various materials, including related matters of research, tool use and appreciation.

Illustrative example(s)

- handicrafts and model-making (not for credit)

Exclusion(s)

- arts and crafts (See 50.0201-Crafts/craft design, folk art and artisanry)

36.0103 Board, card and role-playing games (not for credit)

This instructional program class comprises any program that focuses on the rules and techniques of participation and skill-building in competitive activities of skill or chance, such as board games, card games or role-playing activities.

Illustrative example(s)

- board, card and role-playing games (not for credit)

36.0105 Home maintenance and improvement (not for credit)

This instructional program class comprises any program that focuses on the knowledge and skills associated with maintaining living space and related equipment and furnishings, as well as do-it-yourself repairs and improvement projects of varying complexity.

Illustrative example(s)

- home maintenance and improvement (not for credit)

36.0106 Nature appreciation (not for credit)

This instructional program class comprises any program that focuses on how to increase one's understanding and knowledge of the natural environment in which we live, as well as techniques of wildlife observation and management.

Illustrative example(s)

- nature appreciation (not for credit)

36.0107 Pet ownership and care (not for credit)

This instructional program class comprises any program that focuses on how to increase one's ability to care for domesticated animals kept for pleasure or work.

Illustrative example(s)

- pet ownership and care (not for credit)

36.0108 Sports and exercise (not for credit)

This instructional program class comprises any program that focuses on the rules and techniques of participation and skill building in competitive physical activities, as well as non-competitive physical fitness programs.

Illustrative example(s)

- sports and exercise (not for credit)

Exclusion(s)

- human kinetics (See 31.0505-Exercise science and kinesiology)
- sport and exercise studies (See 31.0501-Sports, kinesiology, and physical education/physical fitness, general)

36.0109 Travel and exploration (not for credit)

This instructional program class comprises any program that focuses on particular geographic areas or phenomena, and provides opportunities for organized trips or tours, including related knowledge and skills.

Illustrative example(s)

- travel and exploration (not for credit)

Exclusion(s)

- tourism and travel services management (See 52.0903-Tourism and travel services management)
- tourism and travel services marketing operations (See 52.1905-Tourism and travel services marketing operations)
- tourism promotion operations (See 52.1906-Tourism promotion operations)

36.0110 Art (not for credit)

This instructional program class comprises any program that focuses on the techniques and methods of creative self-expression in visual or plastic media, such as painting or sculpture.

Illustrative example(s)

- art (not for credit)

Exclusion(s)

- art studies (See 50.0701-Art/art studies, general)
- arts and crafts (See 50.0201-Crafts/craft design, folk art and artisanry)
- fine art painting (See 50.0708-Painting)
- fine arts (See 50.0702-Fine/studio arts, general)
- sculpture (See 50.0709-Sculpture)

36.0111 Collecting (not for credit)

This instructional program class comprises any program that focuses on the knowledge and techniques necessary for acquiring and maintaining personal collections of objects, such as autographs, stamps, models, specimens, vehicles and antiques.

Illustrative example(s)

- collecting (not for credit)

36.0112 Cooking and other domestic skills (not for credit)

This instructional program class comprises any program that focuses on the knowledge and skills related to food buying and preparation, home decoration, sewing and other domestic activities, either as hobbies or as routine tasks.

Illustrative example(s)

- cooking and other domestic skills (not for credit)

Exclusion(s)

- cook (See 12.0500-Cooking and related culinary arts, general)
- food preparation (See 12.0505-Food preparation/professional cooking/kitchen assistant)

36.0113 Computer games and programming skills (not for credit)

This instructional program class comprises any program that focuses on the knowledge and skills associated with creating and maintaining computer programs, as well as playing computer-based games.

Illustrative example(s)

- computer games and programming skills (not for credit)

36.0114 Dancing (not for credit)

This instructional program class comprises any program that focuses on the knowledge and skills related to recreational dance, such as square dancing, ballroom dancing, classical or modern dance.

Illustrative example(s)

- dancing (not for credit)

Exclusion(s)

- ballet (See 50.0302-Ballet)
- dance (See 50.0301-Dance, general)

36.0115 Music (not for credit)

This instructional program class comprises any program that focuses on the knowledge and skills associated with personal music appreciation, the playing of a musical instrument, singing or recreational composition.

Illustrative example(s)

- music (not for credit)

Exclusion(s)

- music (See 50.0901-Music, general)
- music performance (See 50.0903-Music performance, general)

36.0116 Reading (not for credit)

This instructional program class comprises any program that focuses on the activity of reading for pleasure, either alone or as part of a group experience.

Illustrative example(s)

- reading (not for credit)

36.0117 Theatre (not for credit)

This instructional program class comprises any program that focuses on the knowledge and skills associated with participation in amateur theatrical productions, drama appreciation, and writing amateur plays.

Illustrative example(s)

- theatre (not for credit)

Exclusion(s)

- drama and theatre (See 50.0501-Drama and dramatics/theatre arts, general)
- theatre production (See 50.0507-Directing and theatrical production)
- theatre technical production (See 50.0502-Technical theatre/theatre design and technology)

36.0118 Writing (not for credit)

This instructional program class comprises any program that focuses on the knowledge and skills related to creative writing and poetry composition for pleasure or profit, including methods of publication.

Illustrative example(s)

- writing (not for credit)

Exclusion(s)

- English composition (See 23.1301-English writing, general)
- English creative writing (See 23.1302-English creative writing)
- English technical and professional writing (See 23.1303-English professional, technical, business, and scientific writing)
- French creative writing (See 55.1302-French creative writing^{CAN})
- French technical and business writing (See 55.1303-French professional, technical, business, and scientific writing)
- French writing (See 55.1301-French writing, general)

36.0120 Beekeeping (not for credit)

This instructional program class comprises any program that focuses on keeping bees for personal enjoyment, pollination of plants and vegetables, and domestic honey and other bee product production. These programs include courses in bee behaviour, hive equipment, beekeeping supplies, bee pests and parasites, handling bees, hive set up and care, honey production, and seasonal management practices.

Illustrative example(s)

- amateur beekeeping (not for credit)
- beekeeping (not for credit)
- hobby beekeeping (not for credit)
- urban beekeeping (not for credit)

Exclusion(s)

- beekeeping (See 01.0310-Apiculture)
- commercial beekeeping (See 01.0310-Apiculture)

36.0121 Firearms training/safety (not for credit)

This instructional program class comprises any program that focuses on the fundamentals of gun operation, shooting techniques, and firearm safety. These programs include courses in ammunition, firearm cleaning, firearms law, firearm operation, shooting techniques and safe storage, display and transportation of firearms.

Illustrative example(s)

- Canadian Firearms Safety Course (CFSC) (not for credit)
- firearms safety (not for credit)
- firearms safety and handling (not for credit)
- firearms training (not for credit)
- firearms training and safety (not for credit)

Exclusion(s)

- firearms repair (See 47.0402-Gunsmithing/gunsmith)

36.0122 Floral design/arrangement (not for credit)

This instructional program class comprises any program that focuses on the techniques of floral design based on color palette, theme, season, and flower selection. These programs include courses in botanical terminology, flower handling and identification, foliage and plants, traditional and contemporary floral design, and use of seasonal, dry, silk, or exotic plant materials.

Illustrative example(s)

- floral arrangement (not for credit)
- floral design (not for credit)

- flower arranging (not for credit)

Exclusion(s)

- floral design (See 01.0608-Floriculture/floristry operations and management)

36.0123 Master gardener/gardening (not for credit)

This instructional program class comprises any program that prepares individuals to educate the public on science-based, environmentally-sound practices in sustainable gardening and horticulture. These programs include courses in vegetables, houseplants, composting, flowers, fruits, turf grass, woody plants, plant propagation, pollination, soils, wildlife management, integrated pest management, plant pathology, and entomology.

Illustrative example(s)

- master gardener (not for credit)
- master gardening (not for credit)

Exclusion(s)

- public horticulture (See 01.0609-Public horticulture)
- urban and community horticulture (See 01.0610-Urban and community horticulture)

36.0199 Leisure and recreational activities, other (not for credit)

This instructional program class comprises any program not listed above that relates to Leisure and recreational activities.

Illustrative example(s)

- family history (not for credit)
- genealogy (not for credit)
- other leisure and recreational activities (not for credit)

Exclusion(s)

- genealogy (See 54.0199-History, other)

36.02 Non-commercial vehicle operation (not for credit)

This subseries comprises instructional program classes 36.0202 to 36.0299.

36.0202 Aircraft pilot (private) (not for credit)

This instructional program class comprises any program that prepares individuals to fly aircraft for personal use, and qualifies individuals to sit for the US Federal Aviation Administration (FAA) or Transport Canada Civil Aviation (TCCA) pilot's licence examination. These programs include courses in principles of aircraft design and performance; aircraft flight systems and controls; flight crew operations and procedures; radio communications and navigation procedures and systems; airways safety and traffic regulations; and governmental rules and regulations pertaining to piloting aircraft.

Illustrative example(s)

- aircraft pilot (private) (not for credit)
- airplane pilot (private) (not for credit)
- airplane pilot licence (private) (not for credit)
- balloon pilot licence (not for credit)
- glider pilot licence (not for credit)
- gyroplane pilot permit (not for credit)
- recreational aeroplane pilot permit (not for credit)
- TCCA private pilot licence - aeroplane (not for credit)
- Transport Canada Civil Aviation (TCCA) private pilot licence - aeroplane (not for credit)

- ultra-light pilot permit (not for credit)

Exclusion(s)

- airline pilot (See 49.0102-Airline/commercial/professional pilot and flight crew)
- helicopter pilot (private) (not for credit) (See 36.0204-Helicopter pilot (private) (not for credit))
- small unmanned aircraft system (sUAS) pilot (not for credit) (See 36.0207-Remote aircraft pilot (not for credit))

36.0203 Automobile driver education (not for credit)

This instructional program class comprises any program that prepares individuals to drive automobiles for personal use and qualifies them to sit for a driver's licence examination. These programs include courses in automobile operation, driving skills, safety, and traffic rules.

Illustrative example(s)

- automobile driver education (not for credit)
- automobile driver training (not for credit)
- beginner driver education (not for credit)
- driver education (not for credit)
- driver safety course (not for credit)
- driver's licence exam preparation (not for credit)
- drivers ed (not for credit)

Exclusion(s)

- driver and safety instructor (See 13.1304-Driver and safety teacher education)
- motorcycle rider education (not for credit) (See 36.0205-Motorcycle rider education (not for credit))

36.0204 Helicopter pilot (private) (not for credit)

This instructional program class comprises any program that prepares individuals to fly helicopters for personal use, and qualifies individuals to sit for the US Federal Aviation Administration (FAA) or Transport Canada Civil Aviation (TCCA) Private Pilot Licence - Helicopter examination. These programs include courses in principles of helicopter design and performance; helicopter flight systems and controls; flight crew operations and procedures; radio communications and navigation procedures and systems; airways safety and traffic regulations; and governmental rules and regulations pertaining to piloting helicopters.

Illustrative example(s)

- helicopter pilot (private) (not for credit)
- helicopter pilot licence (private) (not for credit)
- private helicopter pilot (not for credit)
- private helicopter pilot licence (not for credit)
- TCCA private pilot licence - helicopter (not for credit)
- Transport Canada Civil Aviation (TCCA) private pilot licence - helicopter (not for credit)

Exclusion(s)

- airplane pilot (private) (not for credit) (See 36.0202-Aircraft pilot (private) (not for credit))
- helicopter pilot (See 49.0102-Airline/commercial/professional pilot and flight crew)
- small unmanned aircraft system (sUAS) pilot (not for credit) (See 36.0207-Remote aircraft pilot (not for credit))

36.0205 Motorcycle rider education (not for credit)

This instructional program class comprises any program that prepares individuals to ride motorcycles for personal use and qualifies them to sit for a motorcycle licence examination. These programs include courses in motorcycle operation, riding skills, safety, and traffic rules.

Illustrative example(s)

- motorcycle licence exam preparation (not for credit)
- motorcycle driver education (not for credit)
- motorcycle rider education (not for credit)
- motorcycle safety course (not for credit)

Exclusion(s)

- automobile driver education (not for credit) (See 36.0203-Automobile driver education (not for credit))

36.0206 Personal watercraft/boating education (not for credit)

This instructional program class comprises any program that prepares individuals to operate boats and other watercraft for personal use and qualifies them to sit for a boating licence examination. These programs include courses in boat and watercraft operation, safety, and applicable laws and rules.

Illustrative example(s)

- boating education (not for credit)
- boating licence exam preparation (not for credit)
- boating safety course (not for credit)
- Jet Ski operator (not for credit)
- personal watercraft education (not for credit)
- personal watercraft operator (not for credit)
- pleasure craft operator (not for credit)
- pleasure craft operator card (PCOC) (not for credit)
- pleasure craft operator exam preparation (not for credit)
- Sea-Doo operator (not for credit)

Exclusion(s)

- ship captain (See 49.0309-Nautical science/merchant marine officer)

36.0207 Remote aircraft pilot (not for credit)

This instructional program class comprises any program that prepares individuals to fly an unmanned aircraft system (UAS) for commercial, professional or personal use, and qualifies individuals to sit for the US Federal Aviation Administration (FAA) or Transport Canada (TC) Remote Pilot Certificate with small unmanned aircraft systems (sUAS) rating knowledge examination. These programs include courses in principles of unmanned aircraft system design and performance; aircraft flight systems and controls; airway safety and traffic regulations; and governmental rules and regulations pertaining to piloting unmanned aircraft.

Illustrative example(s)

- drone pilot certificate - advanced (not for credit)
- drone pilot certificate - basic (not for credit)
- remote aircraft pilot (not for credit)
- remotely piloted aircraft systems (RPAS) (not for credit)
- small remotely piloted aircraft (sRPA) (not for credit)
- small remotely piloted aircraft systems (sRPAS) (not for credit)
- small UAS pilot (not for credit)
- small UAV pilot (not for credit)
- small unmanned aerial system pilot (not for credit)
- small unmanned aerial vehicle (sUAV) pilot (not for credit)

Exclusion(s)

- airplane pilot (private) (not for credit) (See 36.0202-Aircraft pilot (private) (not for credit))
- helicopter pilot (private) (not for credit) (See 36.0204-Helicopter pilot (private) (not for credit))

36.0299 Non-commercial vehicle operation, other (not for credit)

This instructional program class comprises any program not listed above that relates to Non-commercial vehicle operation.

36.99 Leisure and recreational activities and non-commercial vehicle operation, other (not for credit)

This subseries comprises instructional program class 36.9999.

36.9999 Leisure and recreational activities and non-commercial vehicle operation, other (not for credit)

This instructional program class comprises any program not listed above that relates to Leisure and recreational activities and non-commercial vehicle operation.

37. Personal awareness and self-improvement (not for credit)

This series comprises instructional programs that focus on the development of improved self-awareness, avoidance of stressful behaviour, and improved decision-making skills.

37.01 Personal awareness and self-improvement (not for credit)

This subseries comprises instructional program classes 37.0101 to 37.0199.

37.0101 Self-awareness and personal assessment (not for credit)

This instructional program class comprises any program that focuses on the knowledge and skills useful in becoming aware of one's feelings, using methods of assessing one's personal attributes, and being aware of how one is perceived by others.

Illustrative example(s)

- self-awareness and personal assessment (not for credit)

37.0102 Stress management and coping skills (not for credit)

This instructional program class comprises any program that focuses on the knowledge and skills useful in avoiding stressful situations and managing them when they occur, including dealing with complex and long-term stressful relationships.

Illustrative example(s)

- stress management and coping skills (not for credit)

37.0103 Personal decision-making skills (not for credit)

This instructional program class comprises any program that focuses on how to develop individuals' abilities to assess decisions affecting their lives and to make life choices consistent with needs and beliefs.

Illustrative example(s)

- personal decision-making skills (not for credit)

37.0104 Self-esteem and values clarification (not for credit)

This instructional program class comprises any program that focuses on the development of personal philosophies and ideas of positive self-concept and self-worth, and applying these knowledge and skills in everyday circumstances.

Illustrative example(s)

- self-esteem and values clarification (not for credit)

37.0106 Investing/wealth management/retirement planning (not for credit)

This instructional program class comprises any program that prepares individuals to evaluate their personal financial health, establish financial planning strategies, and solve financial problems based on their short term and long term financial goals. These programs include courses in asset management, estate planning, college savings, investment theory, insurance, real estate, retirement planning, and taxation.

Illustrative example(s)

- investing (not for credit)
- investing, wealth management, and retirement planning (not for credit)
- retirement planning (not for credit)
- wealth management (not for credit)

37.0107 Self-defence (not for credit)

This instructional program class comprises any program that focuses on defensive concepts and techniques against various types of assault. These programs include courses in basic principles of defence, continuum of survival, date rape, defensive mindset, weapons and strategies, offensive and defensive postures, recognizing vulnerable locations, risk reduction strategies, and using personal weapons.

Illustrative example(s)

- self defence (not for credit)
- self defence for women (not for credit)
- self-defence (not for credit)
- self-defence for women (not for credit)
- women's self-defence (not for credit)

37.0199 Personal awareness and self-improvement, other (not for credit)

This instructional program class comprises any program not listed above that relates to Personal awareness and self-improvement.

Illustrative example(s)

- neuro-linguistic programming (NLP) (not for credit)
- other personal awareness and self-improvement (not for credit)

38. Philosophy and religious studies

This series comprises instructional programs that focus on logical inquiry, philosophical analysis, and the academic study of organized systems of belief and religious practices.

38.00 Philosophy and religious studies, general

This subseries comprises instructional program class 38.0001.

38.0001 Philosophy and religious studies, general

This instructional program class comprises any general program that combines the study of philosophy and religious studies. These programs include courses in logic; ethics; epistemology; symbolism; phenomenology; the sociology, psychology, philosophy, anthropology, literature, and art of religion; and world religions.

Illustrative example(s)

- philosophy and religion
- philosophy and religious studies
- religion, culture and ethics

Exclusion(s)

- cultural anthropology (See 45.0204-Cultural anthropology)
- philosophy (See 38.0101-Philosophy)

- religion (See 38.0201-Religion/religious studies, general)

38.01 Philosophy, logic and ethics

This subseries comprises instructional program classes 38.0101 to 38.0199.

38.0101 Philosophy

This instructional program class comprises any program that focuses on ideas and their logical structure, including arguments and investigations about abstract and real phenomena. These programs include courses in logic, ethics, aesthetics, epistemology, metaphysics, symbolism, and history of philosophy, and applications to the theoretical foundations and methods of other disciplines.

Illustrative example(s)

- philosophy

Exclusion(s)

- philosophy and religion (See 38.0001-Philosophy and religious studies, general)
- philosophy of education (See 13.0901-Social and philosophical foundations of education)
- philosophy of science and technology (See 54.0104-History and philosophy of science and technology)
- political philosophy (See 45.1001-Political science and government, general)
- religious studies (See 38.0201-Religion/religious studies, general)
- Taoist philosophy (See 38.0299-Religion/religious studies, other)

38.0102 Logic

This instructional program class comprises any program that focuses on the systematic study of valid inference, argument, and sound reasoning. These programs include courses in classical logic, properties of argument, validity, proof, fallacies, formal and material logic, symbolic and mathematical logic, analysis, specific schools of logic, and applications to problems in other academic disciplines and professional fields.

Illustrative example(s)

- logic

Exclusion(s)

- artificial intelligence (See 11.0102-Artificial intelligence)
- cognitive science (See 30.2501-Cognitive science, general)
- computer and information sciences (See 11.0101-Computer and information sciences, general)
- mathematics (See 27.0101-Mathematics, general)
- topology (See 27.0105-Topology and foundations)

38.0103 Ethics

This instructional program class comprises any program that focuses on the systematic study of the theory of moral good and its application to various theoretical and practical problems. These programs include courses in ethical theory, history of ethics, belief and value systems, ethical constructs, and applications to specific topics, issues and problems.

Illustrative example(s)

- Christian ethics
- ethics
- ethics studies
- religious ethics

Exclusion(s)

- bioethics (See 51.3201-Bioethics/medical ethics)
- business ethics (See 38.0104-Applied and professional ethics)

- science, technology and society (See 30.1501-Science, technology and society)

38.0104 Applied and professional ethics

This instructional program class comprises any program that focuses on the systematic study of ethical issues in the workplace and public life, and the application of ethical decision-making to the practical problems of society and the professions. These programs include courses in ethical theory; history of ethics; contemporary social dilemmas; methods in applied ethics; and applications including medical ethics, legal ethics, business ethics, environmental ethics, and criminal justice ethics.

Illustrative example(s)

- applied ethics
- business ethics
- engineering ethics
- professional ethics
- social ethics
- value theory and applied ethics

Exclusion(s)

- bioethics (See 51.3201-Bioethics/medical ethics)
- ethics (See 38.0103-Ethics)

38.0199 Philosophy, logic and ethics, other

This instructional program class comprises any program not listed above that relates to Philosophy, logic and ethics.

Illustrative example(s)

- Eastern philosophy
- European philosophy
- existentialism
- feminist philosophy
- German philosophy
- Greek philosophy
- history of philosophy
- metaphysics
- phenomenology
- philosophy of science

Exclusion(s)

- history and philosophy of art (See 50.0703-Art history, criticism and conservation)
- history and philosophy of religion (See 38.9999-Philosophy and religious studies, other)
- legal philosophy (See 22.9999-Legal professions and studies, other)
- philosophy of science and technology (See 54.0104-History and philosophy of science and technology)
- political philosophy (See 45.1001-Political science and government, general)

38.02 Religion/religious studies

This subseries comprises instructional program classes 38.0201 to 38.0299.

38.0201 Religion/religious studies, general

This instructional program class comprises any program that focuses on the nature of religious belief and specific religious and quasi-religious systems. These programs include courses in phenomenology; the sociology, psychology, philosophy, anthropology, literature and art of religion; mythology; scriptural and textual studies; religious history and politics; and specific studies of particular faith communities and their behaviour.

Illustrative example(s)

- comparative religion
- religion
- religious studies
- world religions

Exclusion(s)

- Bible studies (See 39.0201-Bible/Biblical studies)
- Buddhist studies (See 38.0202-Buddhist studies)
- Christian studies (See 38.0203-Christian studies)
- Hindu religion (See 38.0204-Hindu studies)
- history of religion (See 38.0299-Religion/religious studies, other)
- Islamic studies (See 38.0205-Islamic studies)
- Jewish studies (See 38.0206-Jewish/Judaic studies)
- ordained clergy (See 39.0602-Divinity/ministry (BDiv, MDiv))
- philosophy and religion (See 38.0001-Philosophy and religious studies, general)
- rabbinical studies (See 39.0605-Rabbinical studies (MHL/Rav))
- religious education (except Bachelor of Education) (See 39.0401-Religious education)
- Talmudic law (See 38.0207-Talmudic studies)

38.0202 Buddhist studies

This instructional program class comprises any program that focuses on the philosophy preached by Siddhartha Gautama, the Buddha, in ancient India and subsequently interpreted by his disciples and apostles; together with the intellectual, cultural, social, and ritual developments of the faith and its branches. These programs include courses in Buddhist sacred literature (Tipitaka, etc.) and study of one or more of the main branches including Early Buddhism, Hinayana, Theravada, Madhyamaka, Yogacara, Pure Land, Shingon, Tendai, Nichiren Shu, Zen, Tibetan, Chinese, Korean, Vietnamese, and others.

Illustrative example(s)

- Buddhism
- Buddhist studies
- Tibetan Buddhism
- Zen Buddhism

Exclusion(s)

- religious education (except Bachelor of Education) (See 39.0401-Religious education)
- Tibetan studies (See 05.0131-Tibetan studies)

38.0203 Christian studies

This instructional program class comprises any program that focuses on the philosophy and teachings of Jesus Christ and his apostles, and the subsequent intellectual and cultural movements and institutions based on Christianity. These programs include courses in Christian sacred scripture, Christian literature and philosophy, and studies of one or more of the main branches of the faith and their cultural context including Orthodoxy, Roman Catholicism, Protestantism, Evangelicalism, and others.

Illustrative example(s)

- Anglican studies
- Christian studies
- Christianity and culture
- church history
- Eastern Christian studies

Exclusion(s)

- Bible studies (See 39.0201-Bible/Biblical studies)
- Catholic studies (See 38.0208-Catholic studies)
- Mormon studies (See 38.0209-Mormon studies)
- ordained clergy (See 39.0602-Divinity/ministry (BDiv, MDiv))
- pastoral studies (See 39.0701-Pastoral studies/counselling)
- religious education (except Bachelor of Education) (See 39.0401-Religious education)
- religious studies (See 38.0201-Religion/religious studies, general)
- theology (See 39.0601-Theology/theological studies)

38.0204 Hindu studies

This instructional program class comprises any program that focuses on the group of South Asian theologies and philosophies collectively known as Hinduism; together with the religious history and cultural and social manifestations of the faith. These programs include courses in Hindu theology and philosophy (dharma); literature (Vedas, Upanishads, Epics, and commentaries); the Hindu Pantheon, sects, and movements; schools and disciplines; and related arts and sciences.

Illustrative example(s)

- Hindu religion
- Hindu studies
- Hinduism
- modern Hinduism

Exclusion(s)

- Hindi (See 16.0701-Hindi language and literature)
- religious education (except Bachelor of Education) (See 39.0401-Religious education)
- religious studies (See 38.0201-Religion/religious studies, general)

38.0205 Islamic studies

This instructional program class comprises any program that focuses on Islam as preached by the Prophet Muhammad in 6th century Arabia and subsequently interpreted and elaborated by Islamic scholars and others; together with the cultural and social milieu related to the faith in various periods, localities, and branches. These programs include courses in Islamic scripture and related written authorities and commentaries (Qur'an, Hadith, Sunnah, Tafsir, Sirah); Islamic law and jurisprudence; Sufism; the various branches including Sunni, Shi'ia, Ahmaddiyyah, and others; and the development of Islamic religion and society from the beginnings to the present.

Illustrative example(s)

- Islamic religion
- Islamic studies
- muslim studies

Exclusion(s)

- Middle East history (See 54.0199-History, other)
- Near and Middle Eastern studies (See 05.0108-Near and Middle Eastern studies)
- religious education (except Bachelor of Education) (See 39.0401-Religious education)
- religious studies (See 38.0201-Religion/religious studies, general)

38.0206 Jewish/Judaic studies

This instructional program class comprises any program that focuses on the history, culture, and religion of the Jewish people. These programs include courses in Jewish religious heritage, sacred texts, and law; Jewish philosophy and intellectual history; Jewish life and culture, both in Israel and the Jewish Diaspora; historical Jewish minority cultures such as the Yiddish, Sephardic, and others; anti-Semitism, gentile relations and Shoa; Zionism; and modern developments within Judaism.

Illustrative example(s)

- Jewish studies
- Judaic studies

Exclusion(s)

- Biblical languages and literature (See 16.1103-Ancient Near Eastern and Biblical languages, literatures and linguistics)
- Hebrew Bible (See 39.0201-Bible/Biblical studies)
- Hebrew language and literature (See 16.1102-Hebrew language and literature)
- holocaust and genocide studies (See 30.2101-Holocaust and related studies)
- Jewish law (See 38.0207-Talmudic studies)
- rabbinical studies (See 39.0605-Rabbinical studies (MHL/Rav))
- religious education (except Bachelor of Education) (See 39.0401-Religious education)

38.0207 Talmudic studies

This instructional program class comprises any program that focuses on an intense study of the Talmud that fosters values, critical thinking, and scholarship skills; prepares students for entry into a broad spectrum of graduate and professional schools; and prepares students for entry into a variety of careers, including the Rabbinate. These programs include courses in Jewish law, Jewish jurisprudence, ethics, philosophy, and related disciplines.

Illustrative example(s)

- Jewish law
- Talmud
- Talmudic law
- Talmudic studies

Exclusion(s)

- canon law (See 39.0802-Religious/canon law)
- Hebrew Bible (See 39.0201-Bible/Biblical studies)
- Jewish studies (See 38.0206-Jewish/Judaic studies)
- law (LLB) (See 22.0101-Law (LLB, JD, BCL))
- rabbinical studies (See 39.0605-Rabbinical studies (MHL/Rav))

38.0208 Catholic studies

This instructional program class comprises any program that focuses on Catholic thought, culture, and how Catholic tradition informs theology, culture, institutions, and identity. These programs include courses in Biblical Greek, Biblical Hebrew, Latin, Catholic bioethics, Catholic social thought, church history, philosophy, and theology.

Illustrative example(s)

- Catholic studies
- Roman Catholic studies

Exclusion(s)

- Christian studies (See 38.0203-Christian studies)

38.0209 Mormon studies

This instructional program class comprises any program that focuses on beliefs, practices, culture, and history of the Church of Jesus Christ of Latter-day Saints (Mormon). These programs include courses in Mormon culture, history, literature, philosophy, sociology, and theology.

Illustrative example(s)

- Latter-day Saints (LDS) studies

- Latter-day Saints studies
- Mormon studies

Exclusion(s)

- Christian studies (See 38.0203-Christian studies)

38.0299 Religion/religious studies, other

This instructional program class comprises any program not listed above that relates to Religion/religious studies.

Illustrative example(s)

- Eastern religions
- Eastern religious traditions
- history of religion
- Native American religious traditions
- religion and culture
- Taoism
- Taoist philosophy
- Western religions
- Western religious traditions
- women in religion

Exclusion(s)

- cultural anthropology (See 45.0204-Cultural anthropology)
- religious education (except Bachelor of Education) (See 39.0401-Religious education)
- women's ministry (See 39.0704-Women's ministry)

38.99 Philosophy and religious studies, other

This subseries comprises instructional program class 38.9999.

38.9999 Philosophy and religious studies, other

This instructional program class comprises any program not listed above that relates to Philosophy and religious studies.

Illustrative example(s)

- history and philosophy of religion
- other philosophy and religious studies

Exclusion(s)

- thanatology (See 30.5301-Thanatology)
- theology (See 39.0601-Theology/theological studies)

39. Theology and religious vocations

This series comprises instructional programs that focus on the intramural study of theology and that prepare individuals for the professional practice of religious vocations.

39.02 Bible/Biblical studies

This subseries comprises instructional program class 39.0201.

39.0201 Bible/Biblical studies

This instructional program class comprises any program that focuses on the Christian and/or Jewish Bible and related literature, with an emphasis on understanding and interpreting the theological, doctrinal, and ethical messages contained therein. May include preparation for applying these studies in various religious vocations.

Illustrative example(s)

- Bible studies
- Bible study
- Biblical studies
- Hebrew Bible
- New Testament
- New Testament studies
- Old Testament
- Old Testament studies

Exclusion(s)

- Biblical languages and literature (See 16.1103-Ancient Near Eastern and Biblical languages, literatures and linguistics)
- Christian studies (See 38.0203-Christian studies)
- Jewish studies (See 38.0206-Jewish/Judaic studies)
- religious studies (See 38.0201-Religion/religious studies, general)
- sacred scripture studies (See 39.9999-Theology and religious vocations, other)

39.03 Missions/missionary studies and missiology

This subseries comprises instructional program classes 39.0301 to 39.0399.

39.0301 Missions/missionary studies

This instructional program class comprises any program that focuses on the theory and practice of religious outreach, social service and proselytization, and that prepares individuals for mission vocations. These programs include courses in theology, evangelism, preaching, medical and social mission work, missionary education, missionary aviation, emergency services, legal and political aspects of working in other countries, and preparation for ordination as missionaries.

Illustrative example(s)

- missiology
- mission studies
- mission studies and interreligious dialogue
- missionary
- missionary studies
- missions
- trans-cultural mission
- world missions

Exclusion(s)

- church planting (See 39.0302-Church planting)
- ordained clergy (See 39.0602-Divinity/ministry (BDiv, MDiv))

39.0302 Church planting

This instructional program class comprises any program that prepares individuals to establish congregations of Christians in new locations. These programs include courses in models of church planting, church multiplication strategies, church leadership, evangelism, missiology, Christian ethics, and mission-oriented theology.

Illustrative example(s)

- church planting

Exclusion(s)

- missionary studies (See 39.0301-Missions/missionary studies)

39.0399 Missions/missionary studies and missiology, other

This instructional program class comprises any program not listed above that relates to Missionary studies and missiology.

Illustrative example(s)

- other missionary studies and missiology

39.04 Religious education

This subseries comprises instructional program class 39.0401.

39.0401 Religious education

This instructional program class comprises any program that focuses on the theory and practice of providing educational services to members of faith communities, within the context of a particular religion, and that prepares individuals to serve as religious educators. These programs include courses in planning and teaching lessons; organizing and supervising instructional activities; designing and developing instructional materials; and administering religious education programs and facilities.

Illustrative example(s)

- catechism
- religious education (except Bachelor of Education)

Exclusion(s)

- pastoral studies (See 39.0701-Pastoral studies/counselling)
- religious education teacher (Bachelor of Education) (See 13.1399-Teacher education and professional development, specific subject areas, other)
- religious studies (See 38.0201-Religion/religious studies, general)
- youth and family ministry (See 39.0702-Youth ministry)

39.05 Religious music and worship

This subseries comprises instructional program classes 39.0501 to 39.0599.

39.0501 Religious/sacred music

This instructional program class comprises any program that focuses on the history, theory, composition, and performance of music for religious or sacred purposes, and that prepares individuals for religious musical vocations such as choir directors, cantors, organists, and chanters.

Illustrative example(s)

- church music
- religious music
- sacred music
- sacred music ministry

Exclusion(s)

- music and theatrical arts in Christian worship (See 39.0502-Christian contemporary worship music/worship ministry)
- music performance (See 50.0903-Music performance, general)
- music theory and composition (See 50.0904-Music theory and composition)
- orchestra conductor (See 50.0906-Conducting)
- organ (See 50.0907-Keyboards instruments)
- vocal performance (See 50.0908-Voice and opera)
- worship music ministry (See 39.0502-Christian contemporary worship music/worship ministry)

39.0502 Christian contemporary worship music/worship ministry

This instructional program class comprises any program that focuses on the use of musical and theatrical arts in Christian worship. These programs include courses in digital media, electronic hardware design and installation, music, theater, and worship theology.

Illustrative example(s)

- christian contemporary worship music
- contemporary praise and worship music
- contemporary worship music
- music and theatrical arts in Christian worship
- musical and theatrical arts in Christian worship
- worship ministry
- worship music
- worship music ministry
- worship studies

Exclusion(s)

- sacred music (See 39.0501-Religious/sacred music)
- sacred music ministry (See 39.0501-Religious/sacred music)
- worship and liturgy (See 39.0699-Theological and ministerial studies, other)

39.0599 Religious music and worship, other

This instructional program class comprises any program not listed above that relates to Religious music and worship.

Illustrative example(s)

- music ministry
- other religious music and worship

Exclusion(s)

- sacred music ministry (See 39.0501-Religious/sacred music)
- worship music ministry (See 39.0502-Christian contemporary worship music/worship ministry)

39.06 Theological and ministerial studies

This subseries comprises instructional program classes 39.0601 to 39.0699.

39.0601 Theology/theological studies

This instructional program class comprises any program that focuses on the beliefs and doctrine of a particular religious faith from the intramural point of view of that faith. These programs include courses in systematic theology, historical theology, moral theology, doctrinal studies, dogmatics, apologetics, and applications to specific questions of ecclesiastical polity and religious life.

Illustrative example(s)

- Christian theology
- pastoral theology
- practical theology
- theological studies
- theology

Exclusion(s)

- Christian studies (See 38.0203-Christian studies)
- Jewish studies (See 38.0206-Jewish/Judaic studies)
- seminary (See 39.0604-Pre-theology/pre-ministerial studies)

39.0602 Divinity/ministry (BDiv, MDiv)

This instructional program class comprises any program that prepares individuals for ordination as ministers or priests in any of the Christian religious traditions. These programs include courses in the theology and polity of a particular church, church law, liturgy and ritual, principles of pastoral ministry, homiletics, evangelism, church/parish organization and management, Christian ethics, church history, and related studies.

Illustrative example(s)

- Christian ministry
- church ministry
- clergy
- divinity
- minister of religion
- ordained clergy
- ordained minister
- ordained priest
- priest

Exclusion(s)

- lay pastor (See 39.0705-Lay ministry)
- missionary studies (See 39.0301-Missions/missionary studies)
- ordained pastor (See 39.0701-Pastoral studies/counselling)
- seminary (See 39.0604-Pre-theology/pre-ministerial studies)
- theology (See 39.0601-Theology/theological studies)
- urban ministry (See 39.0703-Urban ministry)
- women's ministry (See 39.0704-Women's ministry)
- youth and family ministry (See 39.0702-Youth ministry)

39.0604 Pre-theology/pre-ministerial studies

This instructional program class comprises any program that prepares individuals to enter a seminary or other program leading to religious ordination, or a related religious vocation.

Illustrative example(s)

- preministerial studies
- pretheology studies
- seminary

Exclusion(s)

- ordained clergy (See 39.0602-Divinity/ministry (BDiv, MDiv))
- theology (See 39.0601-Theology/theological studies)

39.0605 Rabbinical studies (MHL/Rav)

This instructional program class comprises any program that prepares individuals for ordination as rabbis. These programs include courses in Talmud, Halacha, liturgy and rituals, rabbinical thought, Jewish ethics, Jewish education, pastoral counselling and homiletics.

Illustrative example(s)

- rabbi
- rabbinical studies

Exclusion(s)

- Hebrew Bible (See 39.0201-Bible/Biblical studies)
- Jewish studies (See 38.0206-Jewish/Judaic studies)
- religious studies (See 38.0201-Religion/religious studies, general)

- Talmudic law (See 38.0207-Talmudic studies)

39.0699 Theological and ministerial studies, other

This instructional program class comprises any program not listed above that relates to Theological and ministerial studies.

Illustrative example(s)

- other theological and ministerial studies

Exclusion(s)

- thanatology (See 30.5301-Thanatology)
- worship studies (See 39.0502-Christian contemporary worship music/worship ministry)

39.07 Pastoral counselling and specialized ministries

This subseries comprises instructional program classes 39.0701 to 39.0799.

39.0701 Pastoral studies/counselling

This instructional program class comprises any program that focuses on the theory and principles of pastoral care and prepares ordained clergy to provide non-clinical pastoral counselling to individuals and groups. These programs include courses in pastoral leadership, counselling psychology; crisis intervention; individual and group procedures; theological and spiritual counselling; pastoral care; and applications to specific types of ministry.

Illustrative example(s)

- ordained pastor
- pastor
- pastoral counselling
- pastoral leadership
- pastoral ministry
- pastoral studies

Exclusion(s)

- clinical pastoral counselling (See 51.1506-Clinical pastoral counselling/patient counselling)
- lay pastor (See 39.0705-Lay ministry)
- ordained clergy (See 39.0602-Divinity/ministry (BDiv, MDiv))
- organizational leadership (See 52.0213-Organizational leadership)
- pastoral associate (See 39.0705-Lay ministry)
- theology (See 39.0601-Theology/theological studies)
- youth pastor (See 39.0702-Youth ministry)

39.0702 Youth ministry

This instructional program class comprises any program that prepares the ordained clergy and other religious professionals to provide spiritual, counselling, and leadership services to children, adolescents, and young adults. These programs include courses in child and adolescent psychology, human growth and development, family studies, communication skills, religious education, youth counselling, small group leadership, planning and organizing youth activities, volunteer supervision, and youth evangelism and worship.

Illustrative example(s)

- children's ministries
- youth and family ministry
- youth ministry
- youth pastor

Exclusion(s)

- child care worker (See 19.0709-Child care provider/assistant)
- pastoral ministry (See 39.0701-Pastoral studies/counselling)
- religious education (except Bachelor of Education) (See 39.0401-Religious education)
- youth corrections (See 43.0110-Juvenile corrections)
- youth services worker (See 44.0702-Youth services/administration)

39.0703 Urban ministry

This instructional program class comprises any program that prepares the ordained clergy and other religious professionals to provide spiritual, counselling, and leadership services to individuals and groups in urban communities. These programs include courses in bible study and theology, pastoral leadership and care, urban structure and context, inner city ministry, counselling ministries, family studies, homiletics, social ethics, and community organizing.

Illustrative example(s)

- urban ministry

Exclusion(s)

- pastoral ministry (See 39.0701-Pastoral studies/counselling)

39.0704 Women's ministry

This instructional program class comprises any program that prepares non-ordained women to provide spiritual, counselling, and leadership services to other women in local churches, parachurch organizations, and other settings. These programs include courses in foundations of women's ministry, women's ministry in the local church, spiritual formation, women's evangelism and discipleship, bible study and theology, homiletics, lay counselling, women's issues, and leadership training.

Illustrative example(s)

- women's ministry

Exclusion(s)

- pastoral ministry (See 39.0701-Pastoral studies/counselling)
- women in religion (See 38.0299-Religion/religious studies, other)

39.0705 Lay ministry

This instructional program class comprises any program that prepares non-ordained individuals to serve as lay pastors, religious educators, youth leaders, and other professional positions open to the laity in local churches and other settings. These programs include courses in bible studies, theology, spirituality, pastoral counselling, foundations of ministry, effective communication, and church leadership.

Illustrative example(s)

- Christian leadership
- lay leadership
- lay ministry
- lay pastor
- pastoral associate
- pastoral care

Exclusion(s)

- clinical pastoral counselling (See 51.1506-Clinical pastoral counselling/patient counselling)
- ordained clergy (See 39.0602-Divinity/ministry (BDiv, MDiv))
- ordained pastor (See 39.0701-Pastoral studies/counselling)
- organizational leadership (See 52.0213-Organizational leadership)

39.0706 Chaplain/chaplaincy studies

This instructional program class comprises any program that prepares individuals to provide caregiver, pastoral, and spiritual support in an institutional, hospice, military, or sports setting. These programs include courses in global, healthcare, prison, and sports chaplaincy; addiction, crisis, disaster, family, marriage, grief, and loss counselling; ethics; leadership; multi-cultural, multi-faith contexts; and worship.

Illustrative example(s)

- chaplain
- chaplain studies
- chaplaincy studies

Exclusion(s)

- clinical pastoral counselling (See 51.1506-Clinical pastoral counselling/patient counselling)
- lay pastor (See 39.0705-Lay ministry)
- ordained clergy (See 39.0602-Divinity/ministry (BDiv, MDiv))
- ordained pastor (See 39.0701-Pastoral studies/counselling)

39.0799 Pastoral counselling and specialized ministries, other

This instructional program class comprises any program not listed above that relates to Pastoral counselling and specialized ministries.

Illustrative example(s)

- Biblical counselling
- other pastoral counselling and specialized ministries

39.08 Religious institution administration and law

This subseries comprises instructional program classes 39.0801 to 39.0899.

39.0801 Religious institution administration and management

This instructional program class comprises any program that prepares individuals to manage the business affairs and administration of religious institutions. These programs include courses in business management, principles of accounting and financial management, human resources management, taxation of religious institutions, and business law as applied to religious institutions.

Illustrative example(s)

- religious institution administration
- religious institution administration and management
- religious institution management

Exclusion(s)

- institutional management (See 52.0299-Business administration, management and operations, other)

39.0802 Religious/canon law

This instructional program class comprises any program that focuses on the history, theology, and philosophy of religious, church, and ecclesiastical law and that prepares individuals to serve as professional canonists.

Illustrative example(s)

- canon law
- canonical law
- church law
- ecclesiastical law
- religious law (christian)

Exclusion(s)

- law (LLB) (See 22.0101-Law (LLB, JD, BCL))
- Talmudic law (See 38.0207-Talmudic studies)

39.0899 Religious institution administration and law, other

This instructional program class comprises any program not listed above that relates to Religious institution administration and law.

Illustrative example(s)

- other religious institution administration and law
- other religious law

39.99 Theology and religious vocations, other

This subseries comprises instructional program class 39.9999.

39.9999 Theology and religious vocations, other

This instructional program class comprises any program not listed above that relates to Theology and religious vocations.

Illustrative example(s)

- history of theology
- holy scripture studies
- other theology and religious vocations
- religious texts and commentaries
- sacred scripture studies
- spiritual formation
- spirituality

Exclusion(s)

- canon law (See 39.0802-Religious/canon law)
- history of religion (See 38.0299-Religion/religious studies, other)
- thanatology (See 30.5301-Thanatology)

40. Physical sciences

This series comprises instructional programs that focus on the scientific study of inanimate objects, processes of matter and energy, and associated phenomena.

40.01 Physical sciences, general

This subseries comprises instructional program class 40.0101.

40.0101 Physical sciences, general

This instructional program class comprises any program that focuses on the major topics, concepts, processes, and interrelationships of physical phenomena as studied in any combination of physical science disciplines.

Illustrative example(s)

- physical sciences
- pure and applied sciences

Exclusion(s)

- general science (See 30.0101-Biological and physical sciences)
- natural sciences (See 30.1801-Natural sciences)
- physical science technician (See 41.0399-Physical science technologies/technicians, other)
- physics (See 40.0801-Physics, general)
- science laboratory technology (See 41.0000-Science technologies/technicians, general)

40.02 Astronomy and astrophysics

This subseries comprises instructional program classes 40.0201 to 40.0299.

40.0201 Astronomy

This instructional program class comprises any general program that focuses on the planetary, galactic, and stellar phenomena occurring in outer space. These programs include courses in celestial mechanics, cosmology, stellar physics, galactic evolution, quasars, stellar distribution and motion, interstellar medium, atomic and molecular constituents of astronomical phenomena, planetary science, solar system evolution, and specific methodologies such as optical astronomy, radioastronomy, and theoretical astronomy.

Illustrative example(s)

- astronomy
- radio astronomy

Exclusion(s)

- cosmology (See 40.1101-Physics and astronomy)
- physical sciences (See 40.0101-Physical sciences, general)
- planetary astronomy (See 40.0203-Planetary astronomy and science)

40.0202 Astrophysics

This instructional program class comprises any program that focuses on the theoretical and observational study of the structure, properties, and behaviour of stars, star systems and clusters, stellar life cycles, and related phenomena. These programs include courses in cosmology, plasma kinetics, stellar physics, convection and non-equilibrium radiation transfer theory, non-Euclidean geometries, mathematical modelling, galactic structure theory, and relativistic astronomy.

Illustrative example(s)

- astrophysics

Exclusion(s)

- astronomy and physics (See 40.1101-Physics and astronomy)
- cosmology (See 40.1101-Physics and astronomy)
- physics (See 40.0801-Physics, general)
- planetary astronomy (See 40.0203-Planetary astronomy and science)

40.0203 Planetary astronomy and science

This instructional program class comprises any program that focuses on the scientific study of planets, small objects, and related gravitational systems. These programs include courses in the structure and composition of planetary surfaces and interiors, planetary atmospheres, satellites, orbital mechanics, asteroids and comets, solar system evolution and dynamics, planetary evolution, gravitational physics, and radiation physics.

Illustrative example(s)

- planetary astronomy
- planetary science

Exclusion(s)

- astronomy (See 40.0201-Astronomy)
- cosmology (See 40.1101-Physics and astronomy)
- physical sciences (See 40.0101-Physical sciences, general)

40.0299 Astronomy and astrophysics, other

This instructional program class comprises any program not listed above that relates to Astronomy and astrophysics.

Illustrative example(s)

- other astronomy and astrophysics

Exclusion(s)

- astronomy and physics (See 40.1101-Physics and astronomy)
- cosmology (See 40.1101-Physics and astronomy)

40.04 Atmospheric sciences and meteorology

This subseries comprises instructional program classes 40.0401 to 40.0499.

40.0401 Atmospheric sciences and meteorology, general

This instructional program class comprises any general program that focuses on the scientific study of the composition and behaviour of the atmospheric envelopes surrounding the Earth, the effect of Earth's atmosphere on terrestrial weather, and related problems of environment and climate. These programs include courses in atmospheric chemistry and physics, atmospheric dynamics, climatology and climate change, weather simulation, weather forecasting, climate modelling and mathematical theory; and studies of specific phenomena such as clouds, weather systems, storms, and precipitation patterns.

Illustrative example(s)

- atmospheric sciences
- atmospheric sciences and meteorology

Exclusion(s)

- atmospheric physics (See 40.0403-Atmospheric physics and dynamics)
- climatology (See 30.3501-Climate science)
- meteorological technician (See 41.0399-Physical science technologies/technicians, other)
- meteorology (See 40.0404-Meteorology)

40.0402 Atmospheric chemistry and climatology

This instructional program class comprises any program that focuses on the scientific study of atmospheric constituents, reactions, measurement techniques, and processes in predictive, current, and historical contexts. These programs include courses in climate modelling, gases and aerosols, trace gases, aqueous phase chemistry, sinks, transport mechanisms, computer measurement, climate variability, paleoclimatology, climate diagnosis, numerical modelling and data analysis, ionization, recombination, photoemission, and plasma chemistry.

Illustrative example(s)

- atmospheric chemistry
- atmospheric chemistry and climatology

Exclusion(s)

- atmospheric physics (See 40.0403-Atmospheric physics and dynamics)
- atmospheric sciences (See 40.0401-Atmospheric sciences and meteorology, general)
- chemistry (See 40.0501-Chemistry, general)
- climatology (See 30.3501-Climate science)
- Earth science (See 40.0601-Geology/Earth science, general)
- meteorological technician (See 41.0399-Physical science technologies/technicians, other)
- meteorology (See 40.0404-Meteorology)

40.0403 Atmospheric physics and dynamics

This instructional program class comprises any program that focuses on the scientific study of the processes governing the interactions, movement, and behavioural of atmospheric phenomena and related terrestrial and solar phenomena. These programs include courses in cloud and precipitation physics, solar radiation transfer, active and passive remote sensing, atmospheric electricity and acoustics, atmospheric wave phenomena, turbulence and boundary layers, solar wind, geomagnetic storms, coupling, natural plasma, and energization.

Illustrative example(s)

- aeronomy
- atmospheric dynamics
- atmospheric physics
- atmospheric physics and dynamics
- ionospheric environment
- magnetospheric physics

Exclusion(s)

- atmospheric sciences (See 40.0401-Atmospheric sciences and meteorology, general)
- climatology (See 30.3501-Climate science)
- Earth science (See 40.0601-Geology/Earth science, general)
- meteorological technician (See 41.0399-Physical science technologies/technicians, other)
- meteorology (See 40.0404-Meteorology)
- physics (See 40.0801-Physics, general)

40.0404 Meteorology

This instructional program class comprises any program that focuses on the scientific study of the prediction of atmospheric motion and climate change. These programs include courses in general circulation patterns, weather phenomena, atmospheric predictability, parameterization, numerical and statistical analysis, large-scale and meso-scale phenomena, kinematic structures, precipitation processes, and forecasting techniques.

Illustrative example(s)

- meteorology

Exclusion(s)

- atmospheric physics (See 40.0403-Atmospheric physics and dynamics)
- atmospheric sciences (See 40.0401-Atmospheric sciences and meteorology, general)
- climatology (See 30.3501-Climate science)
- meteorological technician (See 41.0399-Physical science technologies/technicians, other)

40.0499 Atmospheric sciences and meteorology, other

This instructional program class comprises any program not listed above that relates to Atmospheric sciences and meteorology.

Illustrative example(s)

- other atmospheric sciences and meteorology

Exclusion(s)

- atmospheric physics (See 40.0403-Atmospheric physics and dynamics)
- atmospheric sciences (See 40.0401-Atmospheric sciences and meteorology, general)
- climatology (See 30.3501-Climate science)
- meteorology (See 40.0404-Meteorology)

40.05 Chemistry

This subseries comprises instructional program classes 40.0501 to 40.0599.

40.0501 Chemistry, general

This instructional program class comprises any general program that focuses on the scientific study of the composition and behaviour of matter, including its micro- and macro-structure, the processes of chemical change, and the theoretical description and laboratory simulation of these phenomena.

Illustrative example(s)

- chemistry

Exclusion(s)

- biochemistry (See 26.0202-Biochemistry)
- chemical engineering (See 14.0701-Chemical engineering)
- chemical engineering technology (See 15.0615-Chemical engineering technology/technician)
- chemical process technology (See 41.0303-Chemical process technology)
- chemical technician (See 41.0301-Chemical technology/technician)
- engineering chemistry (See 14.4401-Engineering chemistry)
- environmental chemistry (See 40.0509-Environmental chemistry)
- forensic chemistry (See 40.0510-Forensic chemistry)
- geochemistry (See 40.0602-Geochemistry)
- theoretical chemistry (See 40.0511-Theoretical chemistry)

40.0502 Analytical chemistry

This instructional program class comprises any program that focuses on the scientific study of techniques for analyzing and describing matter, including its precise composition and the interrelationships of constituent elements and compounds. These programs include courses in spectroscopy, chromatography, atomic absorption, photometry, chemical modelling, mathematical analysis, laboratory analysis procedures and equipment maintenance, and applications to specific research, industrial and health problems.

Illustrative example(s)

- analytical chemistry
- chemical analysis

Exclusion(s)

- analytical chemistry technician (See 41.0301-Chemical technology/technician)
- biochemistry (See 26.0202-Biochemistry)
- chemistry (See 40.0501-Chemistry, general)
- soil chemistry (See 01.1202-Soil chemistry and physics)
- theoretical chemistry (See 40.0511-Theoretical chemistry)

40.0503 Inorganic chemistry

This instructional program class comprises any program that focuses on the scientific study of the elements and their compounds, other than the hydrocarbons and their derivatives. These programs include courses in the characterization and synthesis of non-carbon molecules, including their structure and their bonding, conductivity, and reactive properties; research techniques such as spectroscopy, X-ray diffraction, and photoelectron analysis; and the study of specific compounds, such as transition metals, and compounds composed of inorganic and organic molecules.

Illustrative example(s)

- inorganic chemistry

Exclusion(s)

- chemical engineering (See 14.0701-Chemical engineering)
- chemistry (See 40.0501-Chemistry, general)
- organic chemistry (See 40.0504-Organic chemistry)

40.0504 Organic chemistry

This instructional program class comprises any program that focuses on the scientific study of the properties and behaviour of hydrocarbon compounds and their derivatives. These programs include courses in molecular conversion and synthesis, molecular synthesis and design, the molecular structure of living cells and systems, the mutual reactivity of organic and inorganic compounds in combination, the spectroscopic analysis of hydrocarbon compounds, and applications to specific problems in research, industry, and health.

Illustrative example(s)

- organic chemistry

Exclusion(s)

- biochemistry (See 26.0202-Biochemistry)
- chemistry (See 40.0501-Chemistry, general)
- inorganic chemistry (See 40.0503-Inorganic chemistry)
- soil chemistry (See 01.1202-Soil chemistry and physics)

40.0506 Physical chemistry

This instructional program class comprises any program that focuses on the scientific study of understanding and predicting the behaviour of chemical systems ranging from nuclear particles to atoms, molecules, clusters, biological materials and macroscopic assemblies. These programs include courses in quantum mechanics, spectroscopy, thermodynamics, statistical mechanics, reaction dynamics, group theory, collision theory, and polymer science.

Illustrative example(s)

- physical chemistry

Exclusion(s)

- analytical chemistry (See 40.0502-Analytical chemistry)
- chemical engineering (See 14.0701-Chemical engineering)
- chemical physics (See 40.0508-Chemical physics)

- chemistry (See 40.0501-Chemistry, general)
- nuclear chemistry (See 40.0599-Chemistry, other)
- theoretical chemistry (See 40.0511-Theoretical chemistry)

40.0507 Polymer chemistry

This instructional program class comprises any program that focuses on the scientific study of synthesized macromolecules and their interactions with other substances. These programs include courses in molecular bonding theory, polymerization, properties and behaviour of unstable compounds, the development of tailored polymers, transition phenomena, and applications to specific industrial problems and technologies.

Illustrative example(s)

- polymer chemistry

Exclusion(s)

- chemical engineering (See 14.0701-Chemical engineering)
- petroleum engineering (See 14.2501-Petroleum engineering)
- polymer engineering (See 14.3201-Polymer/plastics engineering)
- polymer engineering technology (See 15.0607-Plastics and polymer engineering technology/technician)

40.0508 Chemical physics

This instructional program class comprises any program that focuses on the scientific study of structural phenomena combining the disciplines of physical chemistry and atomic/molecular physics. These programs include courses in heterogeneous structures, alignment and surface phenomena, quantum theory, mathematical physics, statistical and classical mechanics, chemical kinetics, and laser physics.

Illustrative example(s)

- chemical physics

Exclusion(s)

- chemical engineering (See 14.0701-Chemical engineering)
- chemistry (See 40.0501-Chemistry, general)
- physical chemistry (See 40.0506-Physical chemistry)
- theoretical chemistry (See 40.0511-Theoretical chemistry)

40.0509 Environmental chemistry

This instructional program class comprises any program that focuses on the scientific study of natural systems (air, water, and soil) through the use of chemical techniques and instrumentation, with an emphasis on the movement and fate of pollutants and chemical aspects of contaminant remediation. These programs include courses in analytical, inorganic, organic, and physical chemistry; aquatic, soil, and atmospheric chemistry; environmental engineering; environmental toxicology; and analytical methods.

Illustrative example(s)

- environmental chemistry

Exclusion(s)

- chemistry (See 40.0501-Chemistry, general)

40.0510 Forensic chemistry

This instructional program class comprises any program that focuses on the application of chemical techniques and instrumentation to the analysis and evaluation of physical evidence to aid in criminal investigations. These programs include courses in analytical, inorganic, organic, and physical chemistry; biochemistry; forensic toxicology; instrumental analysis; crime scene processing; criminal investigation; forensic laboratory technology; and applicable law.

Illustrative example(s)

- forensic chemistry

Exclusion(s)

- chemistry (See 40.0501-Chemistry, general)
- forensic pathology - fellowship (See 61.1807-Forensic pathology fellowship programs)
- forensic science (See 43.0406-Forensic science and technology)

40.0511 Theoretical chemistry

This instructional program class comprises any program that focuses on the study of mathematical and computational methods and fundamental laws of physics to describe chemical phenomena and to develop empirical models of molecules and their interactions. These programs include courses in properties of small, isolated molecules; dynamics of elementary chemical processes; reaction pathways of organic molecules; hydrogen bonding patterns in liquids; reaction rates of biological pathways; and advanced computational techniques.

Illustrative example(s)

- theoretical chemistry

Exclusion(s)

- analytical chemistry (See 40.0502-Analytical chemistry)
- chemistry (See 40.0501-Chemistry, general)
- physical chemistry (See 40.0506-Physical chemistry)

40.0512 Cheminformatics/chemistry informatics

This instructional program class comprises any program that focuses on applying computer science approaches in the representation, analysis, design, and modelling of chemical structures and associated metadata, such as biological activity endpoints and physicochemical properties. These programs include courses in chemical information technology, computational chemistry, computer science, database design, molecular modelling, scientific computing, and statistics.

Illustrative example(s)

- chemical informatics
- cheminformatics
- chemistry informatics
- chemoinformatics
- computational chemistry

Exclusion(s)

- bioinformatics (See 26.1103-Bioinformatics)
- chemistry (See 40.0501-Chemistry, general)
- computational biology (See 26.1104-Computational biology)
- computer science (See 11.0701-Computer science)
- informatics (See 11.0104-Informatics)

40.0599 Chemistry, other

This instructional program class comprises any program not listed above that relates to Chemistry.

Illustrative example(s)

- nuclear chemistry
- other chemistry

Exclusion(s)

- agricultural chemistry (See 01.9999-Agricultural and veterinary sciences/services/operations and related fields, other)
- chemical engineering (See 14.0701-Chemical engineering)
- chemical technician (See 41.0301-Chemical technology/technician)
- chemistry teacher (See 13.1323-Chemistry teacher education)
- medicinal and pharmaceutical chemistry (See 51.2004-Medicinal and pharmaceutical chemistry (MS, MSc, PhD))
- scientific computing (See 30.3001-Computational science)
- soil chemistry (See 01.1202-Soil chemistry and physics)

40.06 Geological and Earth sciences/geosciences

This subseries comprises instructional program classes 40.0601 to 40.0699.

40.0601 Geology/Earth science, general

This instructional program class comprises any program that focuses on the scientific study of the Earth; the forces acting upon it; and the behaviour of the solids, liquids and gases comprising it. These programs include courses in historical geology, geomorphology, and sedimentology, the chemistry of rocks and soils, stratigraphy, mineralogy, petrology, geostatistics, volcanology, glaciology, geophysical principles, and applications to research and industrial problems.

Illustrative example(s)

- Earth science
- geological science
- geology
- geoscience

Exclusion(s)

- climate science (See 30.3501-Climate science)
- Earth science teacher education (See 13.1337-Earth science teacher education)
- Earth systems science (See 30.3801-Earth systems science)
- geological engineering (See 14.3901-Geological/geophysical engineering)
- geological engineering technology (See 15.9999-Engineering/engineering-related technologies/technicians, other)
- soil chemistry (See 01.1202-Soil chemistry and physics)

40.0602 Geochemistry

This instructional program class comprises any program that focuses on the scientific study of the chemical properties and behaviour of the silicates and other substances forming, and formed by geomorphological processes of the Earth and other planets. These programs include courses in chemical thermodynamics, equilibrium in silicate systems, atomic bonding, isotopic fractionation, geochemical modelling, specimen analysis, and studies of specific organic and inorganic substances.

Illustrative example(s)

- geochemistry

Exclusion(s)

- chemistry (See 40.0501-Chemistry, general)
- environmental chemistry (See 40.0509-Environmental chemistry)
- geology (See 40.0601-Geology/Earth science, general)
- petrology (See 40.0606-Geochemistry and petrology)

40.0603 Geophysics and seismology

This instructional program class comprises any program that focuses on the scientific study of the physics of solids and its application to the study of the Earth and other planets. These programs include courses in gravimetrics, seismology, earthquake forecasting, magnetometry, electrical properties of solid bodies, plate tectonics, active deformation, thermodynamics, remote sensing, geodesy, and laboratory simulations of geological processes.

Illustrative example(s)

- computational geophysics
- geophysics
- seismology

Exclusion(s)

- geology (See 40.0601-Geology/Earth science, general)
- physics (See 40.0801-Physics, general)
- scientific computing (See 30.3001-Computational science)

40.0604 Paleontology

This instructional program class comprises any program that focuses on the scientific study of extinct life forms and associated fossil remains, and the reconstruction and analysis of ancient life forms, ecosystems, and geologic processes. These programs include courses in sedimentation and fossilization processes, fossil chemistry, evolutionary biology, paleoecology, paleoclimatology, trace fossils, micropaleontology, invertebrate paleontology, vertebrate paleontology, paleobotany, field research methods, and laboratory research and conservation methods.

Illustrative example(s)

- palaeontology
- paleontology

Exclusion(s)

- archaeology (See 45.0301-Archaeology)
- evolutionary biology (See 26.1303-Evolutionary biology)

40.0605 Hydrology and water resources science

This instructional program class comprises any program that focuses on the scientific study of the occurrence, circulation, distribution, chemical and physical properties, and environmental interaction of surface and subsurface waters, including groundwater. These programs include courses in geophysics, thermodynamics, fluid mechanics, chemical physics, geomorphology, mathematical modelling, hydrologic analysis, continental water processes, global water balance, and environmental science.

Illustrative example(s)

- hydrogeology
- hydrology
- water resources science

Exclusion(s)

- hydrogeology and environmental science (See 30.4101-Environmental geosciences)
- hydrological engineering (See 14.0802-Geotechnical and geoenvironmental engineering)
- marine resources management (See 03.0205-Water, wetlands and marine resources management)
- ocean engineering (See 14.2401-Ocean engineering)
- water purification (See 15.0506-Water quality and wastewater treatment management and recycling technology/technician)
- water resources engineering (See 14.0805-Water resources engineering)

40.0606 Geochemistry and petrology

This instructional program class comprises any program that focuses on the scientific study of the igneous, metamorphic, and hydrothermal processes within the Earth and the mineral, fluid, rock, and ore deposits resulting from them. These programs include courses in mineralogy, crystallography, petrology, volcanology, economic geology, meteoritics, geochemical reactions, deposition, compound transformation, core studies, theoretical geochemistry, computer applications, and laboratory studies.

Illustrative example(s)

- geochemistry and petrology
- mineralogy
- petrology

Exclusion(s)

- geochemistry (See 40.0602-Geochemistry)
- mining and mineral engineering (See 14.2101-Mining and mineral engineering)
- petroleum engineering (See 14.2501-Petroleum engineering)

40.0607 Oceanography, chemical and physical

This instructional program class comprises any program that focuses on the scientific study of the chemical components, mechanisms, structure, and movement of ocean waters and their interaction with terrestrial and atmospheric phenomena. These programs include courses in material inputs and outputs, chemical and biochemical transformations in marine systems, equilibria studies, inorganic and organic ocean chemistry, oceanographic processes, sediment transport, zone processes, circulation, mixing, tidal movements, wave properties, and seawater properties.

Illustrative example(s)

- chemical oceanography
- oceanography
- physical oceanography

Exclusion(s)

- biological oceanography (See 26.1302-Marine biology and biological oceanography)
- hydrology (See 40.0605-Hydrology and water resources science)
- maritime studies (See 30.2901-Maritime studies)
- nautical science (See 49.0309-Nautical science/merchant marine officer)
- ocean engineering (See 14.2401-Ocean engineering)

40.0699 Geological and Earth sciences/geosciences, other

This instructional program class comprises any program not listed above that relates to Geological and Earth sciences/geosciences.

Illustrative example(s)

- geodesy
- geodetic sciences
- geodetics
- marine geology
- other geological and Earth sciences/geosciences

Exclusion(s)

- geological engineering (See 14.3901-Geological/geophysical engineering)
- geological engineering technology (See 15.9999-Engineering/engineering-related technologies/technicians, other)
- marine sciences (See 30.3201-Marine sciences)

- topography (See 45.0702-Geographic information science and cartography)

40.08 Physics

This subseries comprises instructional program classes 40.0801 to 40.0899.

40.0801 Physics, general

This instructional program class comprises any general program that focuses on the scientific study of matter and energy, and the formulation and testing of the laws governing the behaviour of the matter-energy continuum. These programs include courses in classical and modern physics, electricity and magnetism, thermodynamics, mechanics, wave properties, nuclear processes, relativity and quantum theory, quantitative methods, and laboratory methods.

Illustrative example(s)

- experimental physics
- physics

Exclusion(s)

- astrophysics (See 40.0202-Astrophysics)
- biophysics (See 26.0203-Biophysics)
- engineering physics (See 14.1201-Engineering physics/applied physics)
- physics teacher education (See 13.1329-Physics teacher education)
- soil physics (See 01.1202-Soil chemistry and physics)

40.0802 Atomic/molecular physics

This instructional program class comprises any program that focuses on the scientific study of the behaviour of matter-energy phenomena at the level of atoms and molecules. These programs include courses in chemical physics, atomic forces and structure, molecular orbital theory, magnetic resonance, molecular bonding, phase equilibria, quantum theory of solids, and applications to the study of specific elements and higher compounds.

Illustrative example(s)

- atomic physics
- molecular physics

Exclusion(s)

- molecular biophysics (See 26.0206-Molecular biophysics)
- nuclear physics (See 40.0806-Nuclear physics)
- particle physics (See 40.0804-Elementary particle physics)

40.0804 Elementary particle physics

This instructional program class comprises any program that focuses on the scientific study of the basic constituents of sub-atomic matter and energy, and the forces governing fundamental processes. These programs include courses in quantum theory, field theory, single-particle systems, perturbation and scattering theory, matter-radiation interaction, symmetry, quarks, capture, Schrodinger mechanics, methods for detecting particle emission and absorption, and research equipment operation and maintenance.

Illustrative example(s)

- elementary particle physics
- particle physics

Exclusion(s)

- atomic physics (See 40.0802-Atomic/molecular physics)
- molecular biophysics (See 26.0206-Molecular biophysics)
- nuclear physics (See 40.0806-Nuclear physics)

40.0805 Plasma and high-temperature physics

This instructional program class comprises any program that focuses on the scientific study of properties and behaviour of matter at high temperatures, such that molecular and atomic structures are in a disassociated ionic or electronic state. These programs include courses in magnetohydrodynamics, free electron phenomena, fusion theory, electromagnetic fields and dynamics, plasma and non-linear wave theory, instability theory, plasma shock phenomena, quantitative modelling, and research equipment operation and maintenance.

Illustrative example(s)

- high-temperature physics
- plasma physics

Exclusion(s)

- atmospheric physics (See 40.0403-Atmospheric physics and dynamics)
- atomic physics (See 40.0802-Atomic/molecular physics)
- nuclear physics (See 40.0806-Nuclear physics)
- particle physics (See 40.0804-Elementary particle physics)

40.0806 Nuclear physics

This instructional program class comprises any program that focuses on the scientific study of the properties and behaviour of atomic nuclei. These programs include courses in nuclear reaction theory, quantum mechanics, energy conservation, nuclear fission and fusion, strong and weak forces, nuclear modelling, nuclear decay, nucleon scattering, pairing, photon and electron reactions, the physics of nuclear effects, statistical methods, and research equipment operation and maintenance.

Illustrative example(s)

- nuclear physics

Exclusion(s)

- atomic physics (See 40.0802-Atomic/molecular physics)
- medical nuclear physics - residency (See 61.2605-Medical nuclear physics residency programs)
- nuclear engineering (See 14.2301-Nuclear engineering)
- particle physics (See 40.0804-Elementary particle physics)
- plasma physics (See 40.0805-Plasma and high-temperature physics)

40.0807 Optics/optical sciences

This instructional program class comprises any program that focuses on the scientific study of light energy, including its structure, properties and behaviour under different conditions. These programs include courses in wave theory, wave mechanics, electromagnetic theory, physical optics, geometric optics, quantum theory of light, photon detecting, laser theory, wall and beam properties, chaotic light, non-linear optics, harmonic generation, optical systems theory, and applications to engineering problems.

Illustrative example(s)

- atmospheric and space optics
- electro-optics
- optical science
- optics
- optics physics

Exclusion(s)

- dispensing optician (See 51.1801-Opticianry/ophthalmic dispensing optician)
- optical engineering (See 14.1003-Laser and optical engineering)
- optometric assistant (See 51.1802-Optometric technician/assistant)
- optometry (See 51.1701-Optometry (OD))

- orthoptics (See 51.1804-Orthoptics/orthoptist)
- photonics technology (See 15.0304-Laser and optical technology/technician)
- physiological optics (See 26.0909-Vision science/physiological optics)

40.0808 Condensed matter and materials physics

This instructional program class comprises any program that focuses on the scientific study of macroscopic physical phenomena and properties that arise from basic microscopic interactions. These programs include courses in low-temperature and solid-state physics, x-ray physics, liquids and soft materials, including the study of semiconductors, metals, superliquids, magnets, superconductors, glasses, gels, polymers, colloids, neural networks, and macromolecules.

Illustrative example(s)

- condensed-matter physics
- low-temperature physics
- materials physics
- solid-state physics
- supra-conductivity physics

Exclusion(s)

- atmospheric physics (See 40.0403-Atmospheric physics and dynamics)

40.0809 Acoustics

This instructional program class comprises any program that focuses on the scientific study of sound, and the properties and behaviour of acoustic wave phenomena under different conditions. These programs include courses in wave theory, the acoustic wave equation, energy transformation, vibration phenomena, sound reflection and transmission, scattering and surface wave phenomena, singularity expansion theory, ducting, and applications to specific research problems such as underwater acoustics, crystallography, and health diagnostics.

Illustrative example(s)

- acoustical physics
- acoustics
- acoustics physics

Exclusion(s)

- acoustic engineering (See 14.9999-Engineering, other)
- sound engineering (See 15.0307-Audio/sound engineering technology/technician)

40.0810 Theoretical and mathematical physics

This instructional program class comprises any program that focuses on the scientific and mathematical formulation and evaluation of the physical laws governing, and models describing, matter-energy phenomena, and the analysis of related experimental designs and results. These programs include courses in classical and quantum theory, relativity theory, field theory, mathematics of infinite series, vector and coordinate analysis, wave and particle theory, advanced applied calculus and geometry, analyses of continuum, cosmology, and statistical theory and analysis.

Illustrative example(s)

- computational physics
- mathematical physics
- quantum mechanics
- quantum physics
- theoretical physics

Exclusion(s)

- computational geophysics (See 40.0603-Geophysics and seismology)

- mathematical sciences (See 27.0301-Applied mathematics, general)
- mathematics (See 27.0101-Mathematics, general)
- physical chemistry (See 40.0506-Physical chemistry)
- scientific computing (See 30.3001-Computational science)
- theoretical chemistry (See 40.0511-Theoretical chemistry)

40.0899 Physics, other

This instructional program class comprises any program not listed above that relates to Physics.

Illustrative example(s)

- electrodynamics
- other physics

Exclusion(s)

- chemical physics (See 40.0508-Chemical physics)
- cosmology (See 40.1101-Physics and astronomy)
- engineering physics (See 14.1201-Engineering physics/applied physics)
- geophysics (See 40.0603-Geophysics and seismology)
- physics teacher education (See 13.1329-Physics teacher education)
- soil physics (See 01.1202-Soil chemistry and physics)

40.10 Materials sciences

This subseries comprises instructional program classes 40.1001 to 40.1099.

40.1001 Materials science

This instructional program class comprises any program that focuses on the general application of mathematical and scientific principles to the analysis and evaluation of the characteristics and behaviour of solids, including internal structure, chemical properties, transport and energy flow properties, thermodynamics of solids, stress and failure factors, chemical transformation states and processes, compound materials, and research on industrial applications of specific materials.

Illustrative example(s)

- materials science

Exclusion(s)

- ceramic sciences (See 14.0601-Ceramic sciences and engineering)
- chemical and materials science (See 40.1002-Materials chemistry)
- chemical engineering (See 14.0701-Chemical engineering)
- materials chemistry (See 40.1002-Materials chemistry)
- materials engineering (See 14.1801-Materials engineering)
- materials science and engineering (See 14.1801-Materials engineering)
- polymer engineering (See 14.3201-Polymer/plastics engineering)
- textile sciences and engineering (See 14.2801-Textile sciences and engineering)

40.1002 Materials chemistry

This instructional program class comprises any program that focuses on the synthesis and study of organic or inorganic materials and their electronic, magnetic, optical or mechanical properties. These programs include courses in advanced materials for photonics, lasers, chemical sensors and arrays or nanochemistry; semiconductor nanowires; and molecular electronics.

Illustrative example(s)

- chemical and materials science
- chemistry and materials science

- materials chemistry

Exclusion(s)

- chemical and materials engineering (See 14.1801-Materials engineering)
- chemical engineering (See 14.0701-Chemical engineering)
- chemistry (See 40.0501-Chemistry, general)
- materials science (See 40.1001-Materials science)

40.1099 Materials sciences, other

This instructional program class comprises any program not listed above that relates to Materials sciences.

Illustrative example(s)

- metallurgy
- other materials sciences

40.11 Physics and astronomy

This subseries comprises instructional program class 40.1101.

40.1101 Physics and astronomy

This instructional program class comprises any program that focuses on the scientific study of the theories that explain the fundamental structure of our world and the universe and which draws from physics and astronomy. These programs include courses in astronomy, calculus, cosmology, differential equations, electricity, magnetism, data analysis, physics, quantum mechanics, space science, spectroscopy, and thermal physics.

Illustrative example(s)

- astronomy and physics
- cosmology
- physics and astronomy

Exclusion(s)

- astronomy (See 40.0201-Astronomy)
- astrophysics (See 40.0202-Astrophysics)
- physics (See 40.0801-Physics, general)

40.99 Physical sciences, other

This subseries comprises instructional program class 40.9999.

40.9999 Physical sciences, other

This instructional program class comprises any program not listed above that relates to Physical sciences.

Illustrative example(s)

- other physical sciences
- spectroscopy

Exclusion(s)

- metallurgy (See 40.1099-Materials sciences, other)
- physical science technician (See 41.0399-Physical science technologies/technicians, other)

41. Science technologies/technicians

This series comprises instructional programs that prepare individuals to apply scientific principles and technical skills in support of scientific research and development.

41.00 Science technologies/technicians, general

This subseries comprises instructional program class 41.0000.

41.0000 Science technologies/technicians, general

This instructional program class comprises any general program that prepares individuals to apply scientific principles and technical skills in support of scientific research and development. These programs include courses in standard laboratory practices and procedures; techniques for analysis, testing and inspection; laboratory instrumentation and equipment operation and maintenance; laboratory and materials handling safety; and computer applications.

Illustrative example(s)

- assistant science laboratory technician
- science laboratory technician
- science laboratory technology
- science technician
- science technology

Exclusion(s)

- biological and physical sciences (See 30.0101-Biological and physical sciences)
- medical technologist (See 51.1005-Clinical laboratory science/medical technology/technologist)
- physical sciences (See 40.0101-Physical sciences, general)

41.01 Biology and biotechnology technologies/technicians

This subseries comprises instructional program class 41.0101.

41.0101 Biology and biotechnology technologies/technicians

This instructional program class comprises any program that prepares individuals to apply scientific principles and technical skills in support of biologists and biotechnologists in research, industrial, and government settings. These programs include courses in fermentation technology, cell culturing, protein purification, biologic synthesis, assaying and testing, quality control, industrial microbiology, bioprocessing, chromatography and bioseparation, genetic technology, laboratory and hazardous materials safety, and computer applications.

Illustrative example(s)

- biological technology
- biology laboratory technician
- biology laboratory technology
- biology technician
- biotechnology laboratory technician
- biotechnology technician
- biotechnology technologist

Exclusion(s)

- biological engineering (See 14.4501-Biological/biosystems engineering)
- biomedical laboratory technologist (See 51.1005-Clinical laboratory science/medical technology/technologist)
- biomedical technology (See 15.0401-Biomedical technology/technician)
- biotechnology (See 26.1201-Biotechnology)
- clinical laboratory technician (See 51.1004-Clinical/medical laboratory technician)

41.02 Nuclear and industrial radiologic technologies/technicians

This subseries comprises instructional program classes 41.0204 to 41.0299.

41.0204 Industrial radiologic technology/technician

This instructional program class comprises any program that prepares individuals to apply scientific principles and technical skills to the operation of industrial and research testing equipment using radioisotopes. These programs include courses in X-ray analysis of materials, non-destructive testing and inspection of materials, and continuous measurement of paper or metal thickness.

Illustrative example(s)

- industrial radiographer
- industrial radiography
- industrial radiologic technician
- industrial radiologic technology
- industrial radiological technician
- industrial radiological technologist
- industrial radiological technology

Exclusion(s)

- exposure device operator (EDO) (See 15.0799-Quality control and safety technologies/technicians, other)
- radiation biology (See 26.0209-Radiation biology/radiobiology)
- radiation therapist (See 51.0907-Radiation therapist/therapeutic radiographer)
- X-ray technician (See 51.0911-Medical radiation technologist/radiographer)

41.0205 Nuclear/nuclear power technology/technician

This instructional program class comprises any program that prepares individuals to apply scientific principles and technical skills in support of research scientists and operating engineers engaged in the running of nuclear reactors, and in nuclear materials processing and disposal. These programs include courses in basic nuclear physics and nuclear engineering, monitoring and safety procedures, radioactive materials handling and disposal, equipment maintenance and operation, and record keeping.

Illustrative example(s)

- nuclear energy technician
- nuclear power technician
- nuclear power technologist
- nuclear power technology
- nuclear technician
- nuclear technologist
- nuclear technology

Exclusion(s)

- exposure device operator (EDO) (See 15.0799-Quality control and safety technologies/technicians, other)
- nuclear engineering (See 14.2301-Nuclear engineering)
- nuclear engineering technology (See 15.1401-Nuclear engineering technology/technician)
- nuclear medicine technology (See 51.0905-Nuclear medical technology/technologist)
- nuclear physics (See 40.0806-Nuclear physics)
- power engineering technology (See 15.1702-Power plant technology/technician)

41.0299 Nuclear and industrial radiologic technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Nuclear and industrial radiologic technologies/technicians.

Illustrative example(s)

- other nuclear and industrial radiologic technologies/technicians

Exclusion(s)

- industrial radiological technology (See 41.0204-Industrial radiologic technology/technician)
- nuclear engineering (See 14.2301-Nuclear engineering)
- nuclear engineering technology (See 15.1401-Nuclear engineering technology/technician)
- nuclear technology (See 41.0205-Nuclear/nuclear power technology/technician)
- radiation therapist (See 51.0907-Radiation therapist/therapeutic radiographer)
- X-ray technician (See 51.0911-Medical radiation technologist/radiographer)

41.03 Physical science technologies/technicians

This subseries comprises instructional program classes 41.0301 and 41.0399.

41.0301 Chemical technology/technician

This instructional program class comprises any program that prepares individuals to apply scientific principles and technical skills in support of chemical and biochemical research and industrial operations. These programs include courses in principles of chemistry and biochemistry, technical mathematics, computer applications, radiochemistry, industrial biochemistry, chemical instrumentation, physical chemistry, laboratory research methods, industrial processing methods and equipment, and test equipment operation and maintenance.

Illustrative example(s)

- analytical chemistry technician
- analytical chemistry technology
- chemical laboratory technician
- chemical laboratory technology
- chemical technician
- chemical technologist
- chemical technology

Exclusion(s)

- chemical engineering (See 14.0701-Chemical engineering)
- chemical engineering technology (See 15.0615-Chemical engineering technology/technician)
- chemistry (See 40.0501-Chemistry, general)
- industrial chemistry technology (See 41.0303-Chemical process technology)

41.0303 Chemical process technology

This instructional program class comprises any program that prepares individuals to apply scientific principles and technical skills to the operation of chemical processing equipment in industries such as chemical manufacturing, petroleum refining, pharmaceutical manufacturing, and waste water treatment. These programs include courses in mathematics, chemistry, and physics; computer applications; chemical and refinery plant operations, processes, and equipment; safety, health, and environment; instrumentation; troubleshooting; and applications to specific industries.

Illustrative example(s)

- chemical process technology
- industrial chemistry technology

Exclusion(s)

- chemical engineering (See 14.0701-Chemical engineering)
- chemical engineering technology (See 15.0615-Chemical engineering technology/technician)
- chemical laboratory technology (See 41.0301-Chemical technology/technician)
- chemistry (See 40.0501-Chemistry, general)

41.0399 Physical science technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Physical science technologies/technicians.

Illustrative example(s)

- meteorological technician
- observer communicator, weather
- other physical science technologies/technicians
- physical science technician
- physics technician
- physics technology
- weather observation

Exclusion(s)

- biological and physical sciences (See 30.0101-Biological and physical sciences)
- clinical laboratory science (See 51.1005-Clinical laboratory science/medical technology/technologist)
- physical sciences (See 40.0101-Physical sciences, general)

41.99 Science technologies/technicians, other

This subseries comprises instructional program class 41.9999.

41.9999 Science technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Science technologies/technicians.

Illustrative example(s)

- other science technologies/technicians

Exclusion(s)

- pharmacy technology (See 51.0805-Pharmacy technician/assistant)

42. Psychology

This series comprises instructional programs that focus on the scientific study of the behaviour of individuals, independently or collectively, and the physical and environmental bases of mental, emotional, and neurological activity.

42.01 Psychology, general

This subseries comprises instructional program class 42.0101.

42.0101 Psychology, general

This instructional program class comprises any general program that focuses on the scientific study of individual and collective behaviour, the physical and environmental bases of behaviour, and the analysis and treatment of behaviour problems and disorders. These programs include courses in the principles of the various subfields of psychology, research methods, and psychological assessment and testing methods.

Illustrative example(s)

- general psychology
- psychology

Exclusion(s)

- applied psychology (See 42.2813-Applied psychology)
- behavioural science (See 30.1701-Behavioural sciences)

- biopsychology (See 30.1001-Biopsychology)
- cognitive science (See 30.2501-Cognitive science, general)
- measurement, evaluation and research methodology in education (See 13.0604-Educational assessment, testing and measurement)
- military psychology and leadership (See 28.0801-Military science, leadership and operational art)
- psychiatry - residency (See 61.2401-Psychiatry residency programs)
- psychoanalysis and psychotherapy (See 51.1507-Psychoanalysis and psychotherapy)
- psychology teacher education (See 13.1335-Psychology teacher education)

42.27 Research and experimental psychology

This subseries comprises instructional program classes 42.2701 to 42.2799.

42.2701 Cognitive psychology and psycholinguistics

This instructional program class comprises any program that focuses on the scientific study of the mechanisms and processes of learning and thinking, and associated information encoding, decoding, processing and transmitting systems. These programs include courses in theories of cognition and intelligence; studies of cognitive processes such as memory, sensation, perception, pattern recognition, problem solving, and conceptual thinking; cybernetics; psycholinguistics; and the study of biological and social communications mechanisms and processes.

Illustrative example(s)

- cognitive and motivational psychology
- cognitive psychology
- psycholinguistics

Exclusion(s)

- applied linguistics (See 16.0105-Applied linguistics)
- cognitive science (See 30.2501-Cognitive science, general)
- education of individuals with speech or language impairments (See 13.1012-Education/teaching of individuals with speech or language impairments)
- linguistics (See 16.0102-Linguistics)
- neuropsychology (See 42.9999-Psychology, other)

42.2702 Comparative psychology

This instructional program class comprises any program that focuses on the behaviour of members of particular species or groups and the relationship of the behaviours of the species or group to their evolutionary origins. These programs include courses in differential psychology, experimental and physiological psychology, psychopharmacology, psychology of individual differences, reinforcement theory, and neurophysiology.

Illustrative example(s)

- comparative psychology

Exclusion(s)

- behavioural science (See 30.1701-Behavioural sciences)
- personality psychology (See 42.2705-Personality psychology)
- physiological psychology (See 42.2706-Behavioural neuroscience)
- psychopharmacology (See 42.2709-Psychopharmacology)

42.2703 Developmental and child psychology

This instructional program class comprises any program that focuses on the scientific study of the unique stages of psychological growth and development of individuals from infancy through childhood. These programs include courses in cognitive and perceptual development, emotional development, personality development, the effects of biological maturation on behaviour, theories of cognitive growth and related research methods, testing

and assessment methods for different age levels, research on child and adolescent behaviour therapy, and the psychology of aging.

Illustrative example(s)

- child developmental psychology
- child psychology
- developmental and child psychology

Exclusion(s)

- child and youth care (See 19.0701-Human development and family studies, general)
- child development (See 19.0706-Child development)
- child psychiatry - fellowship (See 61.2403-Child and adolescent psychiatry fellowship programs)
- clinical child psychology (See 42.2807-Clinical child psychology)
- developmental and adolescent psychology (See 42.2710-Developmental and adolescent psychology)
- developmental psychology (See 42.2799-Research and experimental psychology, other)
- pediatrics/psychology/child and adolescent psychology - combined specialty (See 61.0123-Pediatrics/psychology/child and adolescent psychology combined specialty programs)
- youth services worker (See 44.0702-Youth services/administration)

42.2704 Experimental psychology

This instructional program class comprises any program that focuses on the scientific study of behaviour under experimental conditions and the analysis of controlled behavioural responses. These programs include courses in learning theory, research design and experimental methods, psychological measurement, statistical design and methods, analysis of cognitive and behavioural variables, and the conduct of specialized and large-scale studies.

Illustrative example(s)

- experimental psychology

Exclusion(s)

- behavioural science (See 30.1701-Behavioural sciences)
- cognitive science (See 30.2501-Cognitive science, general)
- comparative psychology (See 42.2702-Comparative psychology)
- experimental pathology (See 26.0910-Pathology/experimental pathology)
- measurement, evaluation and research methodology in education (See 13.0604-Educational assessment, testing and measurement)

42.2705 Personality psychology

This instructional program class comprises any program that focuses on the unique organization of fairly permanent characteristics that set the individual apart from other individuals and, at the same time, determine how others respond to that individual. These programs include courses in Freudian, Skinnerian, Rogerian, and Ellisonian psychology; neo-Freudian psychology; psychological systems, neurophysiology, and psychopharmacology.

Illustrative example(s)

- personality psychology

Exclusion(s)

- clinical psychology (See 42.2801-Clinical psychology)
- comparative psychology (See 42.2702-Comparative psychology)
- psychosociology (See 42.2707-Social psychology)

42.2706 Behavioural neuroscience

This instructional program class comprises any program that focuses on the scientific study of the biological bases of behaviour and psychological functioning, and their application to experimental and therapeutic research

problems. These programs include courses in functional neuroanatomy, neural system development, biochemical neural regulatory mechanisms, neurological biophysics, memory storage and retrieval, physiology of cognition and perception, physiological bases of psychopathology and behavioural disorders, psychopharmacology, comparative psychobiology, molecular and cellular neuroscience, brain science, anatomy and physiology of the central nervous system, and specialized experimental design and research methods.

Illustrative example(s)

- behavioural neuroscience
- physiological psychology
- psychobiology

Exclusion(s)

- biopsychology (See 30.1001-Biopsychology)
- clinical neuropsychology (See 42.2801-Clinical psychology)
- human physiology (See 26.0901-Physiology, general)
- neurobiology and behaviour (See 26.1504-Neurobiology and behaviour)
- neurophysiology (See 26.1503-Neurobiology and anatomy)
- neuropsychology (See 42.9999-Psychology, other)
- neuroscience (See 26.1501-Neuroscience)

42.2707 Social psychology

This instructional program class comprises any program that focuses on the scientific study of individual behaviour in group contexts, group behaviour, and associated phenomena. These programs include courses in social learning theory, group theory and dynamics, sex roles, social cognition and inference, attribution theory, attitude formation, criminal behaviour and other social pathologies, altruistic behaviour, social development, and social ecology.

Illustrative example(s)

- psychosociology
- social psychology

Exclusion(s)

- applied social psychology (See 42.2813-Applied psychology)
- community psychology (See 42.2802-Community psychology)
- military psychology and leadership (See 28.0801-Military science, leadership and operational art)
- personality psychology (See 42.2705-Personality psychology)
- sociology (See 45.1101-Sociology, general)

42.2708 Psychometrics and quantitative psychology

This instructional program class comprises any program that focuses on the mathematical and statistical procedures used in psychological test construction and validation; the general problems of the measurement of behaviour; and the application of quantitative methods to research design and other methodological topics.

Illustrative example(s)

- psychometrics
- psychometry
- quantitative psychology

Exclusion(s)

- applied statistics (See 27.0601-Applied statistics, general)
- measurement, evaluation and research methodology in education (See 13.0604-Educational assessment, testing and measurement)
- statistics and probability (See 27.0502-Mathematical statistics and probability)

42.2709 Psychopharmacology

This instructional program class comprises any program that focuses on the study of the behavioural effects of medications, drugs, nutrients, and chemicals (including natural and artificial toxins) in laboratory and clinical settings. These programs include courses in pharmacology, behavioural toxicology and pharmacology, neuroscience, physiology, clinical psychopharmacology, substance abuse treatments and antidotes, neurochemical mechanisms, epidemiology of chemicals and substances, biochemical interactions, and psychoactive drugs.

Illustrative example(s)

- psychopharmacology

Exclusion(s)

- neuropharmacology (See 26.1003-Neuropharmacology)
- pharmacology (See 26.1001-Pharmacology)
- pharmacology and toxicology (See 26.1007-Pharmacology and toxicology, integrated)
- substance abuse counselling (See 51.1501-Substance abuse/addiction counselling)

42.2710 Developmental and adolescent psychology

This instructional program class comprises any program that focuses on the scientific study of the unique stages of psychological growth and development of individuals from adolescence to adulthood. These programs include courses in cognitive and perceptual development, emotional development, personality development, the effects of biological maturation on behaviour, theories of cognitive growth and related research methods, testing and assessment methods for different age levels, research on child and adolescent behaviour therapy, and the psychology of aging.

Illustrative example(s)

- adolescent developmental psychology
- adolescent psychology
- developmental and adolescent psychology

Exclusion(s)

- adolescent development (See 19.0799-Human development, family studies and related services, other)
- adolescent psychiatry - fellowship (See 61.2403-Child and adolescent psychiatry fellowship programs)
- developmental and child psychology (See 42.2703-Developmental and child psychology)
- developmental psychology (See 42.2799-Research and experimental psychology, other)
- pediatrics/psychology/child and adolescent psychology - combined specialty (See 61.0123-Pediatrics/psychology/child and adolescent psychology combined specialty programs)

42.2799 Research and experimental psychology, other

This instructional program class comprises any program not listed above that relates to Research and experimental psychology.

Illustrative example(s)

- developmental psychology
- other research and experimental psychology

42.28 Clinical, counselling and applied psychology

This subseries comprises instructional program classes 42.2801 to 42.2899.

42.2801 Clinical psychology

This instructional program class comprises any program that prepares individuals for the independent professional practice of clinical psychology, involving the analysis, diagnosis, and clinical treatment of psychological disorders and behavioural pathologies. These programs include courses in clinical assessment and diagnosis, personality

appraisal, psychopathology, clinical psychopharmacology, behaviour modification, therapeutic intervention skills, patient interviewing, personalized and group therapy, child and adolescent therapy, cognitive and behavioural therapy, supervised clinical practice, ethical standards, and applicable regulations.

Illustrative example(s)

- adult clinical psychology
- clinical neuropsychology
- clinical psychology

Exclusion(s)

- clinical child psychology (See 42.2807-Clinical child psychology)
- psychiatry - residency (See 61.2401-Psychiatry residency programs)
- psychology (See 42.0101-Psychology, general)
- psychopharmacology (See 42.2709-Psychopharmacology)

42.2802 Community psychology

This instructional program class comprises any program that prepares individuals to apply psychological principles to the analysis of social problems, and the implementation of intervention strategies for addressing these problems. These programs include courses in social ecology, primary and secondary prevention of social pathologies, social intervention strategies and tactics, large group counselling, social services systems behaviour, creating settings, cultural stress, and the dynamics of social change.

Illustrative example(s)

- community psychology

Exclusion(s)

- community awareness (not for credit) (See 33.0103-Community awareness (not for credit))
- community health science (See 51.2208-Community health and preventive medicine)
- community services (See 19.0707-Family and community services)
- social psychology (See 42.2707-Social psychology)

42.2803 Counselling psychology

This instructional program class comprises any program that prepares individuals for the independent professional practice of psychological counselling, involving the provision of therapeutic services to individuals and groups experiencing psychological problems and exhibiting distress symptoms. These programs include courses in counselling theory, therapeutic intervention strategies, patient/counsellor relationships, testing and assessment methods and procedures, group therapy, marital and family therapy, child and adolescent therapy, supervised counselling practice, ethical standards, and applicable regulations.

Illustrative example(s)

- counselling psychology
- psychological counselling

Exclusion(s)

- clinical pastoral counselling (See 51.1506-Clinical pastoral counselling/patient counselling)
- family counselling (See 51.1505-Marriage and family therapy/counselling)
- guidance counsellor (See 13.1101-Counsellor education/school counselling and guidance services)
- pastoral counselling (See 39.0701-Pastoral studies/counselling)
- psychiatry - residency (See 61.2401-Psychiatry residency programs)
- psychoanalysis and psychotherapy (See 51.1507-Psychoanalysis and psychotherapy)

42.2804 Industrial and organizational psychology

This instructional program class comprises any program that focuses on the scientific study of individual and group behaviour in institutional settings, applications to related problems of organization and industry, and that

prepares individuals to apply such principles in industrial and organizational settings. These programs include courses in group behaviour theory, organizational theory, reward/punishment structures, human-machine and human-computer interactions, motivation dynamics, human stress studies, environmental and organizational influences on behaviour, alienation and satisfaction, and job testing and assessment.

Illustrative example(s)

- industrial psychology
- organizational psychology
- psychology of work
- psychology of work and organizations

Exclusion(s)

- behavioural science (See 30.1701-Behavioural sciences)
- human resources management (See 52.1001-Human resources management/personnel administration, general)
- industrial technology (See 15.0612-Industrial technology/technician)
- military psychology and leadership (See 28.0801-Military science, leadership and operational art)
- organizational behaviour (See 52.1003-Organizational behaviour studies)

42.2805 School psychology

This instructional program class comprises any program that prepares individuals to apply clinical and counselling psychology principles to the diagnosis and treatment of student behavioural problems. These programs include courses in child and/or adolescent development; learning theory; testing, observation and other procedures for assessing educational, personality, intelligence and motor skill development; therapeutic intervention strategies for students and families; identification and classification of disabilities and disorders affecting learning; school psychological services planning; supervised counselling practice; ethical standards; and applicable regulations.

Illustrative example(s)

- school psychology

Exclusion(s)

- counselling psychology (See 42.2803-Counselling psychology)
- educational psychology (See 42.2806-Educational psychology)
- guidance counsellor (See 13.1101-Counsellor education/school counselling and guidance services)
- psychology teacher education (See 13.1335-Psychology teacher education)
- youth services worker (See 44.0702-Youth services/administration)

42.2806 Educational psychology

This instructional program class comprises any program that focuses on the application of psychology to the study of the behaviour of individuals in the roles of teacher and learner, the nature and effects of learning environments, and the psychological effects of methods, resources, organization and non-school experience on the educational process. These programs include courses in learning theory, human growth and development, research methods, and psychological evaluation.

Illustrative example(s)

- educational psychology
- psychopedagogy

Exclusion(s)

- education (See 13.0101-Education, general)
- guidance counsellor (See 13.1101-Counsellor education/school counselling and guidance services)
- psychological counselling (See 42.2803-Counselling psychology)
- psychology teacher education (See 13.1335-Psychology teacher education)
- school psychology (See 42.2805-School psychology)

42.2807 Clinical child psychology

This instructional program class comprises any program that prepares individuals for the independent professional practice of clinical child psychology and that focuses on the developmental processes of children and associated disorders. These programs include courses in developmental neuropsychology, child psychopathology, testing of children and adolescents, pediatric psychology, psychosocial variables in child development, family therapy, behavioural assessment and intervention, clinical skills, consultation, professional standards and ethics, and applications to topics such as infancy, childhood, and adolescence.

Illustrative example(s)

- clinical child psychology

Exclusion(s)

- child development (See 19.0706-Child development)
- child psychiatry - fellowship (See 61.2403-Child and adolescent psychiatry fellowship programs)
- clinical psychology (See 42.2801-Clinical psychology)
- developmental and child psychology (See 42.2703-Developmental and child psychology)
- youth services worker (See 44.0702-Youth services/administration)

42.2808 Environmental psychology

This instructional program class comprises any program that focuses on the study of behavioural interactions between human beings and the environment in individual and group contexts, and ways to improve them. These programs include courses in contextual theory; statistics; physiological, social, and psychological responses to natural and technological hazards and disease; environmental perception and cognition; loneliness and stress; and psychological aspects of environmental design and planning.

Illustrative example(s)

- environmental psychology

Exclusion(s)

- environmental engineering (See 14.1401-Environmental/environmental health engineering)
- environmental engineering technology (See 15.0507-Environmental/environmental engineering technology/technician)
- environmental health (See 51.2202-Environmental health)
- environmental science (See 03.0104-Environmental science)
- military psychology and leadership (See 28.0801-Military science, leadership and operational art)
- organizational psychology (See 42.2804-Industrial and organizational psychology)

42.2809 Geropsychology

This instructional program class comprises any program that focuses on the psychology of aging and of elderly individuals and populations, with reference to growth and decline across the lifespan. These programs include courses in gerontology, developmental and adult psychology, age-related development and decline of cognitive processes, age-related psychological and neurological disorders, social and personality development in aging populations and individuals, and applications to the clinical treatment and care of older adults.

Illustrative example(s)

- geropsychology

Exclusion(s)

- gerontological services (See 19.0702-Adult development and aging)
- gerontology (See 30.1101-Gerontology)

42.2810 Health/medical psychology

This instructional program class comprises any program that focuses on the psychological study of health, illness, and recovery, from the perspective that these phenomena arise from a combination of physical, behavioural, and social conditions. These programs include courses in abnormal and social psychology, psychophysiology, psychopharmacology, learning processes, clinical and behavioural therapies, biopsychosocial modelling, clinical procedures and assessment, preventive education, psychotherapy, rehabilitation processes, and research methods.

Illustrative example(s)

- health psychology
- medical psychology

Exclusion(s)

- health and fitness studies (See 31.0501-Sports, kinesiology, and physical education/physical fitness, general)
- psychiatry - residency (See 61.2401-Psychiatry residency programs)
- psychoanalysis and psychotherapy (See 51.1507-Psychoanalysis and psychotherapy)
- substance abuse counselling (See 51.1501-Substance abuse/addiction counselling)

42.2811 Family psychology

This instructional program class comprises any program that prepares individuals to provide therapeutic, evaluative, and research services to families and individuals in the family unit context. These programs include courses in natural and family systems theory, family and group rituals, family evaluation and assessment, marital and couples therapy, sex therapy, parenting, interviewing techniques, genogram construction, family sculpting, diversity issues, family violence, family law, and professional standards and ethics.

Illustrative example(s)

- family psychology

Exclusion(s)

- family and child studies (See 19.0701-Human development and family studies, general)
- family counselling (See 51.1505-Marriage and family therapy/counselling)
- family systems (See 19.0704-Family systems)

42.2812 Forensic psychology

This instructional program class comprises any program that prepares individuals to apply clinical, counselling, school, and neuropsychology skills to the provision of psychological services within the criminal justice and civil legal systems, including consultation, assessment, and interventions. These programs include courses in the epidemiology of mental/behavioural disorders, risk factors for violence and criminality, profiling and patterning, psychological testing, prediction and intervention measurement, forensic assessment, criminal and civil law and procedures, secure environments, forensic treatment and intervention skills, and professional standards and ethics.

Illustrative example(s)

- criminal psychology
- forensic psychology
- psychocriminology

Exclusion(s)

- criminal science (See 43.0402-Criminalistics and criminal science)
- criminology (See 45.0401-Criminology)
- forensic nursing (See 51.3824-Forensic nursing)
- forensic pathology - fellowship (See 61.1807-Forensic pathology fellowship programs)

- forensic science (See 43.0406-Forensic science and technology)
- forensic social work (See 44.0703-Forensic social work)
- social psychology (See 42.2707-Social psychology)

42.2813 Applied psychology

This instructional program class comprises any program that focuses on the application of psychological theories and methods to real-world settings and problems, such as business and industry, government, education, military, and community settings. These programs include courses in applications of psychology, industrial/organizational psychology, developmental psychology, social psychology, cognitive psychology, counselling, human factors, research methods and statistics, and program evaluation.

Illustrative example(s)

- applied psychology
- applied social psychology

Exclusion(s)

- applied behaviour analysis (See 42.2814-Applied behaviour analysis)
- general psychology (See 42.0101-Psychology, general)
- measurement, evaluation and research methodology in education (See 13.0604-Educational assessment, testing and measurement)
- psychiatry - residency (See 61.2401-Psychiatry residency programs)
- psychoanalysis and psychotherapy (See 51.1507-Psychoanalysis and psychotherapy)
- psychology teacher education (See 13.1335-Psychology teacher education)
- social psychology (See 42.2707-Social psychology)

42.2814 Applied behaviour analysis

This instructional program class comprises any program that focuses on the application of principles of learning and behaviour to enhance the development, abilities, and choices of children and adults; and that prepares individuals to address the behavioural needs of individuals, especially those with developmental disabilities and autism. These programs include courses in behaviour analysis and learning, behavioural and functional assessment, developmental psychology, applied behavioural analysis in developmental disabilities and autism, applied behavioural analysis in mental health and aging, research methods, evaluation of interventions, and professional and ethical issues.

Illustrative example(s)

- applied behaviour analysis
- applied behaviour analysis - autism
- applied behaviour intervention
- applied behavioural sciences
- autism and behavioural science
- autism and pervasive developmental disorders
- autism spectrum disorders
- behavioural science technician
- behavioural science technology
- early intensive behavioural intervention

Exclusion(s)

- adolescent development (See 19.0799-Human development, family studies and related services, other)
- applied psychology (See 42.2813-Applied psychology)
- behavioural science (See 30.1701-Behavioural sciences)
- health behaviour (See 51.2212-Behavioural aspects of health)

42.2815 Performance and sport psychology

This instructional program class comprises any program that focuses on the motor, physiological, and psychosocial aspects of sport behaviour. These programs include courses in applied sport psychology, clinical mental health counselling, coaching, exercise physiology, ethical performance enhancement, human development, leadership and team building, mind-body practices, neuroscience, and personality and health.

Illustrative example(s)

- performance and sport psychology
- performance psychology
- sport psychology
- sports psychology

Exclusion(s)

- human performance (See 31.0505-Exercise science and kinesiology)
- sport coach (See 31.0501-Sports, kinesiology, and physical education/physical fitness, general)

42.2816 Somatic psychology

This instructional program class comprises any program that focuses on a holistic approach to solving interpersonal issues and psychological problems. These programs include courses in authentic movement, body-mind balance and integration, contact improvisation, dance, Pilates, Tai Chi, relaxation techniques, and Yoga.

Illustrative example(s)

- somatic psychology

Exclusion(s)

- somatic bodywork (See 51.3503-Somatic bodywork)

42.2817 Transpersonal/spiritual psychology

This instructional program class comprises any program that prepares individuals to pursue spiritual and psychological practices for counselling. These programs include courses in emotional intelligence, expressive movement, healing practices and rituals, human consciousness, movement and meditation, psychosomatic connection, spiritual systems and wellness, transpersonal counselling, and therapeutic trance.

Illustrative example(s)

- spiritual psychology
- transpersonal psychology

Exclusion(s)

- spiritual formation (See 39.9999-Theology and religious vocations, other)

42.2899 Clinical, counselling and applied psychology, other

This instructional program class comprises any program not listed above that relates to Clinical, counselling and applied psychology.

Illustrative example(s)

- other clinical, counselling and applied psychology

42.99 Psychology, other

This subseries comprises instructional program class 42.9999.

42.9999 Psychology, other

This instructional program class comprises any program not listed above that relates to Psychology.

Illustrative example(s)

- abnormal psychology
- neuropsychology
- other psychology

Exclusion(s)

- animal behaviour (See 26.0708-Animal behaviour and ethology)
- behavioural science (See 30.1701-Behavioural sciences)
- military psychology and leadership (See 28.0801-Military science, leadership and operational art)
- organizational behaviour (See 52.1003-Organizational behaviour studies)

43. Security and protective services

This series comprises instructional programs that focus on the principles and procedures for providing police, fire, specialized security and protective services, other safety services and managing penal institutions.

43.01 Criminal justice and corrections

This subseries comprises instructional program classes 43.0100 to 43.0199.

43.0100 Criminal justice and corrections, general

This instructional program class comprises any program that focuses on the general study of criminal justice and corrections. These programs include courses in criminology, criminal justice, correctional science, forensic science, law enforcement, psychology, and ethics.

Illustrative example(s)

- corrections and criminal justice
- criminal justice
- criminal justice and corrections
- criminal justice studies
- general criminal justice and corrections
- introduction to criminal justice and corrections

Exclusion(s)

- corrections (See 43.0102-Corrections)
- criminal justice - policing (See 43.0107-Criminal justice/police science)
- criminal justice - security (See 43.0109-Security and loss prevention services)
- criminal justice system studies (See 43.0104-Criminal justice/safety studies)
- law enforcement administration (See 43.0103-Criminal justice/law enforcement administration)

43.0102 Corrections

This instructional program class comprises any program that prepares individuals to study the theories and principles of correctional science and to function as professional corrections officers and other workers in incarceration facilities.

Illustrative example(s)

- adult correctional officer
- correction services worker
- correctional officer
- correctional services
- correctional services technology
- correctional techniques
- correctional worker
- corrections

Exclusion(s)

- corrections administration (See 43.0113-Corrections administration)
- law enforcement administration (See 43.0103-Criminal justice/law enforcement administration)
- youth corrections (See 43.0110-Juvenile corrections)

43.0103 Criminal justice/law enforcement administration

This instructional program class comprises any program that prepares individuals to apply theories and practices of organization management and criminal justice to the administration of public law enforcement agencies and operations. These programs include courses in law enforcement history and theory, operational command leadership, administration of public police organizations, labour relations, incident response strategies, legal and regulatory responsibilities, budgeting, public relations, and organizational leadership.

Illustrative example(s)

- criminal justice administration
- customs administration
- justice administration
- law enforcement administration
- police administration
- police management

Exclusion(s)

- bylaw enforcement (See 43.0199-Criminal justice and corrections, other)
- criminal justice and public policy (See 43.0104-Criminal justice/safety studies)
- criminal justice studies (See 43.0100-Criminal justice and corrections, general)
- criminal law (except graduate level) (See 22.0101-Law (LLB, JD, BCL))
- police science (See 43.0107-Criminal justice/police science)

43.0104 Criminal justice/safety studies

This instructional program class comprises any program that focuses on the criminal justice system, its organizational components and processes, and its legal and public policy contexts. These programs include courses in criminal law and policy, police and correctional systems organization, the administration of justice and the judiciary, and public attitudes regarding criminal justice issues.

Illustrative example(s)

- criminal justice and public policy
- criminal justice system studies

Exclusion(s)

- criminal justice studies (See 43.0100-Criminal justice and corrections, general)
- criminal law (except graduate level) (See 22.0101-Law (LLB, JD, BCL))
- criminology (See 45.0401-Criminology)
- law enforcement administration (See 43.0103-Criminal justice/law enforcement administration)

43.0107 Criminal justice/police science

This instructional program class comprises any program that prepares individuals to perform the duties of police and public security officers, including patrol and investigative activities, traffic control, crowd control and public relations, witness interviewing, evidence collection and management, basic crime prevention methods, weapon and equipment operation and maintenance, report preparation and other routine law enforcement responsibilities.

Illustrative example(s)

- criminal justice - policing
- First Nations constable
- justice and law enforcement

- law enforcement
- peace officer
- police foundations
- police science
- police studies
- police technology
- Royal Canadian Mounted Police

Exclusion(s)

- archaeological resources protection (See 43.0123-Cultural/archaeological resources protection)
- criminology (See 45.0401-Criminology)
- critical incident response/special police operations (See 43.0119-Critical incident response/special police operations)
- investigation and interviewing (See 43.0114-Law enforcement investigation and interviewing)
- law enforcement administration (See 43.0103-Criminal justice/law enforcement administration)
- law enforcement intelligence analysis (See 43.0408-Law enforcement intelligence analysis)
- maritime law enforcement (See 43.0122-Maritime law enforcement)
- military and strategic studies (See 28.0801-Military science, leadership and operational art)
- natural resources law enforcement (See 03.0208-Environmental/natural resources law enforcement and protective services)
- private investigation (See 43.9999-Security and protective services, other)
- protective services operations (See 43.0120-Protective services operations)
- sheriff (See 22.0399-Legal support services, other)

43.0109 Security and loss prevention services

This instructional program class comprises any program that prepares individuals to perform routine inspection, patrol and crime prevention services for security companies. These programs include courses in the provision of personal protection as well as property security.

Illustrative example(s)

- criminal justice - security
- private policing and asset protection
- security
- security and loss prevention services
- security guard
- security officer
- security services

Exclusion(s)

- bodyguard (See 43.0120-Protective services operations)
- computer systems security (See 11.1003-Computer and information systems security/auditing/information assurance)
- financial advisor (See 52.0804-Financial planning and services)
- investments and securities (See 52.0807-Investments and securities)
- occupational health and safety technology (See 15.0701-Occupational safety and health technology/technician)
- public safety (See 43.0399-Security and protective services, specialized programs, other)
- security services administration (See 43.0112-Securities services administration/management)
- security system installation and maintenance (See 47.0110-Security system installation, repair and inspection technology/technician)

43.0110 Juvenile corrections

This instructional program class comprises any program that prepares individuals to specialize in the provision of correction services to underage minor populations. These programs include courses in corrections, juvenile

delinquency, juvenile development and psychology, juvenile law, and justice administration, social services, record keeping procedures, and communication skills.

Illustrative example(s)

- delinquency intervention
- juvenile corrections
- youth corrections
- youth justice

Exclusion(s)

- corrections (See 43.0102-Corrections)
- youth services worker (See 44.0702-Youth services/administration)

43.0112 Securities services administration/management

This instructional program class comprises any program that prepares individuals to plan, manage, and supervise services providing private security protection for people and property and related investigative and consulting functions. These programs include courses in security and loss prevention services, private security and investigation techniques, security technologies, personnel management, business operations, marketing, applicable laws and regulations, and client relations.

Illustrative example(s)

- business and organizational security management
- security administration
- security management
- security services administration
- security services management

Exclusion(s)

- bylaw enforcement (See 43.0199-Criminal justice and corrections, other)
- corrections administration (See 43.0113-Corrections administration)
- law enforcement administration (See 43.0103-Criminal justice/law enforcement administration)
- security services (See 43.0109-Security and loss prevention services)
- security system installation and maintenance (See 47.0110-Security system installation, repair and inspection technology/technician)

43.0113 Corrections administration

This instructional program class comprises any program that prepares individuals to plan and manage institutional facilities and programs for housing and rehabilitating prisoners in the public and/or private sectors. These programs include courses in the principles and practice of correction, facilities planning and management, safety and security, social and health services, staff and inmate management, budgeting, communication skills, correctional psychology, and applications to specific types of correctional facilities approaches.

Illustrative example(s)

- corrections administration

Exclusion(s)

- corrections (See 43.0102-Corrections)
- law enforcement administration (See 43.0103-Criminal justice/law enforcement administration)
- security services administration (See 43.0112-Securities services administration/management)

43.0114 Law enforcement investigation and interviewing

This instructional program class comprises any program focusing on the principles, procedures, techniques, legal concerns, and problems associated with a criminal investigation. These programs include courses in administrative law and procedures; courtroom evidence management and preparation; case presentation and

court testimony; description and identification; federal criminal law and procedures and federal, provincial, territorial, and municipal quasi-criminal law and procedures; informant and suspect rights; officer liability; informant and witness management; victim awareness; interviewing techniques; psychology; criminal investigation methods and procedures; report writing and documentation; investigative techniques; and case management.

Illustrative example(s)

- investigation and interviewing
- investigative and enforcement skills
- law enforcement investigation and interviewing

Exclusion(s)

- arson prevention and investigation (See 43.0205-Fire/arson investigation and prevention)
- economic crime investigation (See 43.0405-Financial forensics and fraud investigation)
- forest fire investigation and prevention (See 43.0206-Wildland/forest firefighting and investigation)
- law enforcement intelligence analysis (See 43.0408-Law enforcement intelligence analysis)
- police science (See 43.0107-Criminal justice/police science)

43.0115 Law enforcement record keeping and evidence management

This instructional program class comprises any program focusing on the principles and procedures for managing records in police or other security offices, including storing and retrieving evidence and related data. These programs include courses in administrative law and procedures, office management, report preparation, organizational software, database software, physical and digital evidence properties, controlled storage and retrieval, investigative file inventories, case management, security systems, and communications skills.

Illustrative example(s)

- law enforcement record keeping and evidence management

Exclusion(s)

- archival administration and records management (See 25.0103-Archives/archival administration)

43.0119 Critical incident response/special police operations

This instructional program class comprises any program focusing on the principles and techniques for dealing with police emergencies such as hostage situations, bomb threats, barricades and terrorist incidents. These programs include courses in crisis management, command procedures, incident containment, information collection and debriefing, first responder negotiation, victim and criminal psychology, site survey and surveillance, special weapons and tactics, interagency communications and joint operations, pre-confrontation and contingency planning, assault and rescue operations, security and crowd control, media relations, and post-operation procedures.

Illustrative example(s)

- critical incident response/special police operations

Exclusion(s)

- critical incident stress management (See 51.1599-Mental and social health services and allied professions, other)
- disaster and emergency management (See 43.0302-Crisis/emergency/disaster management)
- emergency medical responder (EMR) (See 51.0810-Emergency care attendant (EMT ambulance))
- police science (See 43.0107-Criminal justice/police science)

43.0120 Protective services operations

This instructional program class comprises any program focusing on the principles and techniques of providing physical security protection to clients in various environments and situations. These programs include courses in security intelligence and information resources, operations planning and surveying, operations security, weapons and explosives, defense and offense techniques, security and surveillance systems, communications systems,

perimeter and access control, weapons of mass destruction, contingency planning, crowd control, cover and evacuation, combat and vehicle techniques, and applicable legal and administrative responsibilities.

Illustrative example(s)

- bodyguard
- protective security
- protective services operations

Exclusion(s)

- police science (See 43.0107-Criminal justice/police science)
- public safety (See 43.0399-Security and protective services, specialized programs, other)
- security services (See 43.0109-Security and loss prevention services)

43.0121 Suspension and debarment investigation

This instructional program class comprises any program focusing on the principles and techniques for investigating criminal behaviour among government contractors and grantees at different levels. These programs include courses in financial fraud and money-laundering, auditing, computer investigations, legal concepts and applications, procurement law, non-procurement debarment, jurisdiction and lead agency, analytical methods, suspension, parallel proceedings, evidence protection, equitable considerations, investigative techniques, administrative and global solutions, case management and preparation.

Illustrative example(s)

- suspension and debarment investigation

Exclusion(s)

- computer forensics (See 43.0403-Cyber/computer forensics and counterterrorism)
- forensic auditing (See 43.0405-Financial forensics and fraud investigation)

43.0122 Maritime law enforcement

This instructional program class comprises any program focusing on the application of law enforcement and security principles and procedures to the marine environment. These programs include courses in criminal and nautical law, nautical terminology, seamanship and vessel operation, vessel maintenance, navigation and navigation systems, meteorology, vessel and passenger safety, radar and remote sensing systems, communications systems, vessel pursuit and stop, boarding and arrest techniques, investigative and evidence techniques, weaponry and applications to specific situations such as piracy, drug trafficking and smuggling.

Illustrative example(s)

- maritime law enforcement

Exclusion(s)

- law enforcement intelligence analysis (See 43.0408-Law enforcement intelligence analysis)
- maritime law (graduate level) (See 22.0223-Transportation law (LLM, LL.D., JSD/SJD))
- maritime studies (See 30.2901-Maritime studies)
- police science (See 43.0107-Criminal justice/police science)

43.0123 Cultural/archaeological resources protection

This instructional program class comprises any program focusing on the application of law enforcement principles and techniques to the protection of cultural resources and the investigation of related crimes. These programs include courses in cultural resources law, archaeological standards of value, site damage assessment, evidence collection, surveillance techniques, investigative techniques, case management and preparation.

Illustrative example(s)

- archaeological resources protection
- cultural resources protection

Exclusion(s)

- archaeology (See 45.0301-Archaeology)
- police science (See 43.0107-Criminal justice/police science)

43.0199 Criminal justice and corrections, other

This instructional program class comprises any program not listed above that relates to Criminal justice and corrections.

Illustrative example(s)

- border guard
- border services
- bylaw enforcement
- law and security
- law and security administration
- law enforcement and security
- other criminal justice and corrections
- protection, security and investigation

Exclusion(s)

- computer systems security (See 11.1003-Computer and information systems security/auditing/information assurance)
- sheriff (See 22.0399-Legal support services, other)

43.02 Fire protection

This subseries comprises instructional program classes 43.0201 to 43.0299.

43.0201 Fire prevention and safety technology/technician

This instructional program class comprises any program focusing on the application of fire science and technology to problems of reducing fire risk, loss limitation, supervising substance removal, conducting safety inspections and investigations, and advising on matters of safety procedures and fire prevention policy. These programs include courses in fire behaviour, fire simulation, structural risk assessment, materials analysis, detection and suppression systems, smoke management, supply and evacuation, public education, legal aspects of fire prevention, and related research and communications methods.

Illustrative example(s)

- advanced fire prevention technologies
- fire inspection
- fire prevention
- fire prevention education
- fire prevention technology
- fire protection
- fire protection inspection and testing
- fire protection technology
- fire risk prevention and inspection
- fire safety

Exclusion(s)

- arson prevention and investigation (See 43.0205-Fire/arson investigation and prevention)
- fire protection engineering technician (See 15.9999-Engineering/engineering-related technologies/technicians, other)
- fire safety engineering (See 14.9999-Engineering, other)
- fire systems technology (See 43.0204-Fire systems technology)
- firefighting (See 43.0203-Fire science/firefighting)

- forest fire investigation and prevention (See 43.0206-Wildland/forest firefighting and investigation)
- hazardous materials information systems technology (See 15.0704-Hazardous materials information systems technology/technician)

43.0202 Fire services administration

This instructional program class comprises any program focusing on the principles, theory, and practices associated with the management of fire operations, firefighting services, and community fire issues. These programs include courses in fire protection history and theory, incident command leadership, administration of public fire organizations, labour relations, emergency medical services management, fire emergency response strategies and mitigation, legal and regulatory responsibilities, budgeting, public relations, and organizational leadership.

Illustrative example(s)

- fire service administration
- fire service management

43.0203 Fire science/firefighting

This instructional program class comprises any program focusing on the theory and practice of fires and firefighting. These programs include courses in fire chemistry and physics, combustible materials, computer science, building construction, fire codes and related laws, fire hydraulics, fire command, fire prevention/inspection, fire protection systems, fire suppression systems, fire/arson investigation, occupational safety, equipment operation, emergency medicine and communications.

Illustrative example(s)

- fire science
- fire science technology
- firefighter training
- firefighting
- firefighting technology
- preservice firefighter

Exclusion(s)

- emergency medical technician (paramedic) (See 51.0904-Emergency medical technology/technician (EMT paramedic))
- fire prevention (See 43.0201-Fire prevention and safety technology/technician)
- forest firefighting (See 43.0206-Wildland/forest firefighting and investigation)

43.0204 Fire systems technology

This instructional program class comprises any program focusing on the principles and practice of firefighting systems, building construction and related resources as applied to fire prevention, control, and mitigation. These programs include courses in fire hydraulics and dynamics, fire protection structures and systems design, fire behaviour and combustion, fire protection hydraulics and water supply, fire protection equipment and systems, building construction for fire protection, and fire apparatus.

Illustrative example(s)

- fire systems technology

Exclusion(s)

- fire alarm technician (See 47.0110-Security system installation, repair and inspection technology/technician)
- fire protection engineering technician (See 15.9999-Engineering/engineering-related technologies/technicians, other)
- fire protection technology (See 43.0201-Fire prevention and safety technology/technician)
- fire safety engineering (See 14.9999-Engineering, other)

43.0205 Fire/arson investigation and prevention

This instructional program class comprises any program focusing on the theory and principles of fire combustion and behaviour applied to the analysis of fires and their causes. These programs include courses in fire behaviour and combustion, fire dynamics, hazardous materials chemistry, incendiary fire analysis, fire-related human behaviour, forensic procedures, investigative techniques, case management and case preparation.

Illustrative example(s)

- arson investigation
- arson prevention
- arson prevention and investigation
- fire investigation

Exclusion(s)

- fire prevention (See 43.0201-Fire prevention and safety technology/technician)
- fire protection engineering technician (See 15.9999-Engineering/engineering-related technologies/technicians, other)
- fire safety engineering (See 14.9999-Engineering, other)
- forest fire investigation and prevention (See 43.0206-Wildland/forest firefighting and investigation)
- investigation and interviewing (See 43.0114-Law enforcement investigation and interviewing)

43.0206 Wildland/forest firefighting and investigation

This instructional program class comprises any program focusing on the application of fire science, firefighting and investigation to the prevention, control and mitigation of wildland fires and the analysis of causes. These programs include courses in fire science and behaviour, wildland environments, meteorology, wildland fire hydraulics and dynamics, water and chemical supply systems, wildland firefighting operations, airborne firefighting, firebreak engineering, communications systems, wildland arson, forensic procedures, wildland fire prevention, investigation techniques, case management and preparation.

Illustrative example(s)

- forest arson investigation and prevention
- forest fire investigation and prevention
- forest firefighting
- wildland arson investigation and prevention
- wildland fire investigation and prevention
- wildland firefighter
- wildland firefighting

Exclusion(s)

- arson prevention and investigation (See 43.0205-Fire/arson investigation and prevention)
- fire prevention (See 43.0201-Fire prevention and safety technology/technician)
- firefighting (See 43.0203-Fire science/firefighting)
- forestry crew (See 03.0511-Forest technology/technician)
- investigation and interviewing (See 43.0114-Law enforcement investigation and interviewing)

43.0299 Fire protection, other

This instructional program class comprises any program not listed above that relates to Fire protection.

Illustrative example(s)

- other fire protection

Exclusion(s)

- fire alarm technician (See 47.0110-Security system installation, repair and inspection technology/technician)

- fire protection engineering technician (See 15.9999-Engineering/engineering-related technologies/technicians, other)
- fire safety engineering (See 14.9999-Engineering, other)

43.03 Security and protective services, specialized programs

This subseries comprises instructional program classes 43.0302 to 43.0399.

43.0302 Crisis/emergency/disaster management

This instructional program class comprises any program focusing on the application of the incident command system model to formulating and implementing effective response to natural and man-made disasters. These programs include courses in contingency planning, hazard and risk assessment, joint operations, law and ethics, emergency response and recovery, event mitigation, emergency rescue and medical operations, incident command, terrorism and national security issues, law enforcement, relief administration, volunteer and citizen coordination, public relations and applications to specific types of incidents.

Illustrative example(s)

- crisis management
- disaster management
- disaster medicine and management
- disaster operations and recovery
- disaster planning and management
- emergency and disaster mitigation
- emergency management
- emergency preparedness and technology
- incident command systems
- public health preparedness and emergency management

Exclusion(s)

- crisis intervention management (See 51.1513-Trauma counselling)
- critical incident response/special police operations (See 43.0119-Critical incident response/special police operations)
- emergency communications (See 43.0399-Security and protective services, specialized programs, other)
- emergency medical responder (EMR) (See 51.0810-Emergency care attendant (EMT ambulance))

43.0399 Security and protective services, specialized programs, other

This instructional program class comprises any program not listed above that relates to Security and protective services, specialized programs.

Illustrative example(s)

- 911 and emergency services communications
- 911 operator
- emergency communications
- emergency communications and response
- emergency communications operator
- emergency services communications
- emergency telecommunications
- public safety communications
- search and rescue
- search and rescue technician

Exclusion(s)

- bodyguard (See 43.0120-Protective services operations)
- computer systems security (See 11.1003-Computer and information systems security/auditing/information assurance)

- emergency management (See 43.0302-Crisis/emergency/disaster management)
- military search and rescue technician (See 29.0501-Military technologies and applied sciences)
- security guard (See 43.0109-Security and loss prevention services)
- telecommunication engineering (See 14.1004-Telecommunications engineering)

43.04 Security science and technology

This subseries comprises instructional program classes 43.0401 to 43.0499.

43.0401 Security science and technology, general

This instructional program class comprises any program that focuses on the general application of science and technology to security.

Illustrative example(s)

- general security science and technology
- introduction to security science and technology
- security science and technology
- security technology and science

Exclusion(s)

- security services (See 43.0109-Security and loss prevention services)

43.0402 Criminalistics and criminal science

This instructional program class comprises any program that focuses on the application of clinical and criminal laboratory science, investigative techniques, and criminology to the reconstruction of crimes and the analysis of physical evidence. These programs include courses in laboratory science, laboratory procedures, criminology and police science, evidentiary testing and analysis, computer applications, record keeping, reconstruction techniques, evidence handling and storage, and applications to specific types of evidence and crimes.

Illustrative example(s)

- criminal science
- criminalistics

Exclusion(s)

- criminology (See 45.0401-Criminology)
- forensic science (See 43.0406-Forensic science and technology)

43.0403 Cyber/computer forensics and counterterrorism

This instructional program class comprises any program focusing on the principles and techniques used to identify, search, seize and analyse digital media and to conduct cyber investigations against criminal and terrorist activity. These programs include courses in computer boot processes and drives, jumper setting, file access and reconstruction, hacking, network systems, cryptography, programming, investigative techniques, forensic imagery, web-based investigation methods, cyberterrorism, and applicable laws and administrative procedures.

Illustrative example(s)

- computer counterterrorism
- computer forensics
- computer forensics and counterterrorism
- cyber counterterrorism
- cyber forensics
- cyber forensics and counterterrorism
- cyber investigation
- forensic investigation - computer crime
- internet crime investigation

- internet forensic investigation

Exclusion(s)

- computer systems security (See 11.1003-Computer and information systems security/auditing/information assurance)
- cybersecurity defense strategy (See 43.0404-Cybersecurity defense strategy/policy)
- forensic auditing (See 43.0405-Financial forensics and fraud investigation)
- suspension and debarment investigation (See 43.0121-Suspension and debarment investigation)

43.0404 Cybersecurity defense strategy/policy

This instructional program class comprises any program that focuses on the study of strategy, policy, and standards regarding the security of, and operations in, cyberspace. These programs include courses in incident response, information assurance, recovery policies, vulnerability reduction, deterrence, threat reduction, and resiliency.

Illustrative example(s)

- cybersecurity defense policy
- cybersecurity defense strategy
- cybersecurity policy

Exclusion(s)

- cyber forensics and counterterrorism (See 43.0403-Cyber/computer forensics and counterterrorism)
- cyberspace security (See 11.1003-Computer and information systems security/auditing/information assurance)

43.0405 Financial forensics and fraud investigation

This instructional program class comprises any program focusing on the principles and techniques of conducting investigations into financial crime, terrorist activity, and the analysis and use of accounting data as evidence. These programs include courses in the principles of accounting, investigative auditing, computer investigations, accounting system documents and software, business corruption, criminal and terrorist financial networks, international money markets and movement, net worth analysis, financial fraud, exposing concealed assets, records seizure, fraud and money laundering statutes, fraud case initiation, case management, and case presentation.

Illustrative example(s)

- economic crime investigation
- financial forensics
- financial fraud investigation
- forensic accounting
- forensic auditing
- fraud and money-laundering
- fraud examination and forensic accounting
- investigative and forensic accounting

Exclusion(s)

- auditing (See 52.0303-Auditing)
- computer forensics (See 43.0403-Cyber/computer forensics and counterterrorism)
- investigation and interviewing (See 43.0114-Law enforcement investigation and interviewing)
- suspension and debarment investigation (See 43.0121-Suspension and debarment investigation)

43.0406 Forensic science and technology

This instructional program class comprises any program that focuses on the application of the physical, biomedical, and social sciences to the analysis and evaluation of physical evidence, human testimony and criminal suspects. These programs include courses in forensic medicine, forensic dentistry, anthropology, psychology,

entomology, pathology, forensic laboratory technology and autopsy procedures, DNA and blood pattern analysis, crime scene analysis, crime scene photography, fingerprint technology, document analysis, witness and suspect examination procedures, applicable law and regulations, and professional standards and ethics.

Illustrative example(s)

- forensic identification
- forensic science
- forensic science and technology
- forensic science technology

Exclusion(s)

- criminal science (See 43.0402-Criminalistics and criminal science)
- criminology (See 45.0401-Criminology)
- forensic accounting (See 43.0405-Financial forensics and fraud investigation)
- forensic anthropology (See 45.0205-Forensic anthropology)
- forensic chemistry (See 40.0510-Forensic chemistry)
- forensic nursing (See 51.3824-Forensic nursing)
- forensic pathology - fellowship (See 61.1807-Forensic pathology fellowship programs)
- forensic psychology (See 42.2812-Forensic psychology)

43.0407 Geospatial intelligence

This instructional program class comprises any program that prepares individuals to analyse security and intelligence problems using a geographic perspective by relating human actions to cultural, political, economic, social, and physical landscapes. These programs include courses in aerial photography analysis, cartography, geographic information systems (GIS), physical geography, remote sensing, spatial programming, and quantitative methods in geographic research.

Illustrative example(s)

- geospatial intelligence
- geospatial intelligence (GEOINT)

Exclusion(s)

- geographic information science (See 45.0702-Geographic information science and cartography)
- law enforcement intelligence analysis (See 43.0408-Law enforcement intelligence analysis)
- military intelligence (See 29.0501-Military technologies and applied sciences)

43.0408 Law enforcement intelligence analysis

This instructional program class comprises any program focusing on the preparation of law enforcement personnel to perform intelligence and surveillance operations and to analyse and use data collected via such operations. These programs include courses in the intelligence cycle, information sources, data retrieval, digital investigation, financial investigations, document analysis, external sources, geographic information systems, link analysis, operation planning and security, case management, applicable law and regulations, and case preparation.

Illustrative example(s)

- law enforcement intelligence analysis
- law enforcement intelligence and surveillance operations

Exclusion(s)

- business intelligence (See 52.1301-Management science)
- geospatial intelligence (See 43.0407-Geospatial intelligence)
- investigation and interviewing (See 43.0114-Law enforcement investigation and interviewing)
- maritime law enforcement (See 43.0122-Maritime law enforcement)
- military intelligence (See 29.0501-Military technologies and applied sciences)

- police science (See 43.0107-Criminal justice/police science)

43.0499 Security science and technology, other

This instructional program class comprises any program not listed above that relates to Security science and technology.

Illustrative example(s)

- other security science and technology

43.99 Security and protective services, other

This subseries comprises instructional program class 43.9999.

43.9999 Security and protective services, other

This instructional program class comprises any program not listed above that relates to Security and protective services.

Illustrative example(s)

- other security and protective services
- private investigation

Exclusion(s)

- emergency medical technician (paramedic) (See 51.0904-Emergency medical technology/technician (EMT paramedic))
- search and rescue (See 43.0399-Security and protective services, specialized programs, other)

44. Public administration and social service professions

This series comprises instructional programs that prepare individuals to analyse, manage, and deliver public programs and services.

44.00 Human services, general

This subseries comprises instructional program class 44.0000.

44.0000 Human services, general

This instructional program class comprises any program that focuses on the general study and provision of human and social services to individuals and communities and prepares individuals to work in public and private human services agencies and organizations. These programs include courses in the social sciences, psychology, principles of social service, human services policy, planning and evaluation, social services law and administration, and applications to particular issues, services, localities, and populations.

Illustrative example(s)

- human services
- human services counsellor
- human services worker
- social services
- social services worker

Exclusion(s)

- addiction counselling (See 51.1501-Substance abuse/addiction counselling)
- community services (See 19.0707-Family and community services)
- developmental services worker (DSW) (See 19.0710-Developmental services worker)
- human development studies (See 19.0701-Human development and family studies, general)
- social work (See 44.0701-Social work, general)

44.02 Community organization and advocacy

This subseries comprises instructional program class 44.0201.

44.0201 Community organization and advocacy

This instructional program class comprises any program that focuses on the theories, principles, and practice of organizing and providing services to communities. Prepares individuals to apply such knowledge and skills in community service positions.

Illustrative example(s)

- community action
- community advocacy
- community organization
- community organization and action
- community organization and advocacy

Exclusion(s)

- community arts practice (See 50.1101-Community/environmental/socially-engaged art)
- community awareness (not for credit) (See 33.0103-Community awareness (not for credit))
- community health care (See 51.1504-Community health services/liaison/counselling)
- community involvement (not for credit) (See 33.0104-Community involvement (not for credit))
- community psychology (See 42.2802-Community psychology)
- community worker (See 19.0707-Family and community services)
- developmental services worker (DSW) (See 19.0710-Developmental services worker)
- social entrepreneurship (See 52.0704-Social entrepreneurship)
- social work (See 44.0701-Social work, general)

44.04 Public administration

This subseries comprises instructional program classes 44.0401 to 44.0499.

44.0401 Public administration, general

This instructional program class comprises any program that prepares individuals to serve as managers in the executive arm of government; and that focuses on the systematic study of executive organization and management. These programs include courses in the roles, development, and principles of public administration; the management of public policy; executive-legislative relations; public budgetary processes and financial management; administrative law; public personnel management; professional ethics; and research methods.

Illustrative example(s)

- First Nations public administration
- government administration
- Indigenous governance
- municipal administration
- municipal services management
- public administration
- public administration and governance
- public sector management
- public services management
- regional public administration

Exclusion(s)

- fundraising (See 52.0206-Non-profit/public/organizational management)
- political science (See 45.1001-Political science and government, general)
- public finance (See 52.0808-Public finance)
- public policy analysis (See 44.0501-Public policy analysis, general)

- public relations (See 09.0902-Public relations/image management)
- public works management (See 44.0402-Public works management)
- urban planning (See 04.0301-City/urban, community and regional planning)

44.0402 Public works management

This instructional program class comprises any program that focuses on public works management skills and public works operation. These programs include courses in accountability, budget, conflict resolution strategies, ethics, finance, human resources, labor and employee relations, and operations management.

Illustrative example(s)

- public works administration
- public works management
- public works operations

Exclusion(s)

- public accounting (See 52.0301-Accounting)
- public administration (See 44.0401-Public administration, general)
- public finance (See 52.0808-Public finance)
- public services management (See 44.0401-Public administration, general)

44.0403 Public transportation and infrastructure planning/studies

This instructional program class comprises any program that focuses on the economic, social, spatial, and environmental aspects of transportation and infrastructure planning. These programs include courses in economics, environmental analysis, geographic information systems (GIS), logistics, risk analysis, transportation economics, transportation evaluation, transportation planning, transportation policy, and urban transportation planning.

Illustrative example(s)

- public transportation planning
- transportation and infrastructure planning
- transportation and infrastructure studies
- transportation planning
- urban transportation planning

Exclusion(s)

- critical infrastructure protection (See 43.0399-Security and protective services, specialized programs, other)
- public transportation management (See 52.0209-Transportation/mobility management)
- transportation engineering (See 14.0804-Transportation and highway engineering)
- transportation technician (See 52.0410-Traffic, customs and transportation clerk/technician)
- urban and regional planning (See 04.0301-City/urban, community and regional planning)

44.0499 Public administration, other

This instructional program class comprises any program not listed above that relates to Public administration.

Illustrative example(s)

- First Nations housing management
- First Nations housing manager
- First Nations housing professional
- housing management
- other public administration
- public housing management
- social housing management

Exclusion(s)

- property management (See 52.1501-Real estate)

44.05 Public policy analysis

This subseries comprises instructional program classes 44.0501 to 44.0599.

44.0501 Public policy analysis, general

This instructional program class comprises any program that focuses on the systematic analysis of public policy issues and decision processes. These programs include courses in the role of economic and political factors in public decision making and policy formulation; microeconomic analysis of policy issues; resource allocation and decision modelling; cost/benefit analysis; statistical methods; and applications to specific public policy topics.

Illustrative example(s)

- public policy
- public policy analysis

Exclusion(s)

- cultural resource management and policy analysis (See 30.1202-Cultural resource management and policy analysis)
- education policy studies (See 44.0502-Education policy analysis)
- health policy (See 44.0503-Health policy analysis)
- international public policy (See 44.0504-International public policy analysis)
- natural resource management (See 03.0201-Environmental/natural resources management and policy, general)
- public administration (See 44.0401-Public administration, general)

44.0502 Education policy analysis

This instructional program class comprises any program that focuses on the systematic analysis of public policy issues related to education and educational systems at the local, provincial, national, and international levels. These programs include courses in social and cultural issues in education, contemporary educational policies, history of education, economics of education, international and comparative education, education and social change, educational research and evaluation methods, and applications to specific public policy topics.

Illustrative example(s)

- education policy studies
- educational policy
- educational policy analysis
- educational policy studies

Exclusion(s)

- higher education policy (See 13.0406-Higher education/higher education administration)
- public policy analysis (See 44.0501-Public policy analysis, general)

44.0503 Health policy analysis

This instructional program class comprises any program that focuses on the systematic analysis of public policy issues related to domestic and international health and health care systems. These programs include courses in contemporary health issues and policies, politics and economics of health care delivery, epidemiology, public health, comparative and global health, medical law and ethics, statistical methods, and applications to specific public policy topics.

Illustrative example(s)

- health policy
- health policy analysis

Exclusion(s)

- health care administration (See 51.0701-Health/health care administration/management)
- international public health/international health (See 51.2210-International public health/international health)
- public policy analysis (See 44.0501-Public policy analysis, general)

44.0504 International public policy analysis

This instructional program class comprises any program that focuses on the systematic analysis of public policy issues related to relationships among nations and among governments and non-governmental entities. These programs include courses in international politics, governance, financial policy, and security affairs; globalization; economic and social policies of developing nations; and applications to specific public policy topics such as labour and employment, immigration, and human rights.

Illustrative example(s)

- international public policy
- international public policy analysis

Exclusion(s)

- international agriculture (See 01.0701-International agriculture)
- international business (See 52.1101-International business/trade/commerce)
- international development (See 45.0604-Development economics and international development)
- international economics (See 45.0605-International economics)
- international finance (See 52.0806-International finance)
- international law (except graduate level) (See 22.0101-Law (LLB, JD, BCL))
- international law (graduate level) (See 22.0209-International law and legal studies (LLM, LLD, JSD/SJD))
- international political economy (See 45.1004-Political economy)
- international public health/international health (See 51.2210-International public health/international health)
- international relations (See 45.0901-International relations and affairs)
- international studies (See 30.2001-International/globalization studies)
- international trade law (graduate level) (See 22.0210-International business, trade and tax law (LLM, LLD, JSD/SJD))
- public policy analysis (See 44.0501-Public policy analysis, general)

44.0580 Cannabis-related public policy analysis^{CAN}

This instructional program class comprises any program that focuses on the systematic analysis of public policy and health policy issues and decision processes related to cannabis. These programs include courses in cannabis health issues and policies; the role of economic and political factors in cannabis related public decision making and policy formulation; research, evaluation and analysis methods; statistical methods; and applications to specific cannabis policy topics.

Illustrative example(s)

- cannabis health policy
- cannabis health policy analysis
- cannabis policy
- cannabis policy analysis
- cannabis public policy
- cannabis public policy analysis
- cannabis-related health policy analysis
- cannabis-related public health policy
- cannabis-related public policy
- cannabis-related public policy analysis

Exclusion(s)

- cannabis-related public health (See 51.2280-Cannabis-related public health^{CAN})
- health policy analysis (See 44.0503-Health policy analysis)

- public policy analysis (See 44.0501-Public policy analysis, general)

44.0599 Public policy analysis, other

This instructional program class comprises any program not listed above that relates to Public policy analysis.

Illustrative example(s)

- other public policy analysis

Exclusion(s)

- environmental policy analysis (See 03.0201-Environmental/natural resources management and policy, general)

44.07 Social work

This subseries comprises instructional program classes 44.0701 to 44.0799.

44.0701 Social work, general

This instructional program class comprises any program that prepares individuals for the professional practice of social welfare administration and counselling, and that focuses on the study of organized means of providing basic support services for vulnerable individuals and groups. These programs include courses in social welfare policy; case work planning; social counselling and intervention strategies; administrative procedures and regulations; and specific applications in areas such as child welfare and family services, probation, employment services, and disability counselling.

Illustrative example(s)

- social work

Exclusion(s)

- addiction counselling (See 51.1501-Substance abuse/addiction counselling)
- clinical social work (See 51.1503-Clinical/medical social work)
- community service worker (See 19.0707-Family and community services)
- delinquency intervention (See 43.0110-Juvenile corrections)
- developmental services worker (DSW) (See 19.0710-Developmental services worker)
- forensic social work (See 44.0703-Forensic social work)
- social services worker (See 44.0000-Human services, general)
- youth services worker (See 44.0702-Youth services/administration)

44.0702 Youth services/administration

This instructional program class comprises any program that prepares individuals to plan, manage, and implement social services for children, youth, and families. These programs include courses in child development and psychology, adolescence, family studies, social work, social services administration, juvenile and family law, program and facilities planning, youth leadership, counselling, probation, casework, applicable procedures, and regulations, and professional standards and ethics.

Illustrative example(s)

- child and youth care counsellor
- child and youth worker
- youth administration
- youth care worker
- youth counsellor
- youth services
- youth services worker

Exclusion(s)

- child and youth care (See 19.0701-Human development and family studies, general)
- child care worker (See 19.0709-Child care provider/assistant)
- delinquency intervention (See 43.0110-Juvenile corrections)
- developmental services worker (DSW) (See 19.0710-Developmental services worker)
- family and community services (See 19.0707-Family and community services)
- social work (See 44.0701-Social work, general)
- youth pastor (See 39.0702-Youth ministry)

44.0703 Forensic social work

This instructional program class comprises any program that prepares individuals to serve as social workers in correctional facilities, mental health hospitals, the justice system, substance abuse treatment programs, and victim assistance. These programs include courses in forensic social work, criminal justice administration, domestic violence, ethics, juvenile justice systems, mental illness and crime, program evaluation, and research methods.

Illustrative example(s)

- forensic social work

Exclusion(s)

- clinical social work (See 51.1503-Clinical/medical social work)
- forensic nursing (See 51.3824-Forensic nursing)
- forensic psychology (See 42.2812-Forensic psychology)
- medical social work (See 51.1503-Clinical/medical social work)
- social work (See 44.0701-Social work, general)

44.0799 Social work, other

This instructional program class comprises any program not listed above that relates to Social work.

Illustrative example(s)

- other social work

Exclusion(s)

- youth corrections (See 43.0110-Juvenile corrections)

44.99 Public administration and social service professions, other

This subseries comprises instructional program class 44.9999.

44.9999 Public administration and social service professions, other

This instructional program class comprises any program not listed above that relates to Public administration and social service professions.

Illustrative example(s)

- other public administration and social service professions

Exclusion(s)

- social services worker (See 44.0000-Human services, general)

45. Social sciences

This series comprises instructional programs that focus on the systematic study of social systems, social institutions, and social behaviour.

45.01 General social sciences

This subseries comprises instructional program classes 45.0101 to 45.0199.

45.0101 Social sciences, general

This instructional program class comprises any program that focuses on the general study of human social behaviour and social institutions using any of the methodologies common to the social sciences and/or history, or an undifferentiated program of study in the social sciences.

Illustrative example(s)

- social sciences
- social studies

Exclusion(s)

- family science (See 19.0101-Family and consumer sciences/human sciences, general)
- humanities (See 24.0103-Humanities/humanistic studies)
- social science teacher education (See 13.1317-Social science teacher education)
- social studies education (See 13.1318-Social studies teacher education)
- sociology (See 45.1101-Sociology, general)

45.0102 Research methodology and quantitative methods

This instructional program class comprises any program that focuses on the design of research studies, measurement of variables, data analysis, and formulation of models. These programs include courses in experimental, quasi-experimental, and case study methods; historical research; participant observation; questionnaire design; sampling theory; and statistical methods.

Illustrative example(s)

- methodology, measurement, and statistics
- research methodology and quantitative methods
- social research methods

Exclusion(s)

- clinical trial research coordination (See 51.0719-Clinical research coordinator)
- educational statistics and research methods (See 13.0603-Educational statistics and research methods)
- measurement, evaluation and research methodology in education (See 13.0604-Educational assessment, testing and measurement)
- medical research (MS, MSc, PhD) (See 51.1401-Medical science/scientist (MS, MSc, PhD))
- survey research and survey methodology (See 45.0103-Survey research/methodology)

45.0103 Survey research/methodology

This instructional program class comprises any program that focuses on survey research design to gather data about behaviours, demographics, opinions, and data analysis to answer complex questions. These programs include courses in the analysis of survey data, cross-cultural and multi-population survey methodology, data collection methods, modes of survey analysis, quantitative analysis, questionnaire design, research design, sampling, survey error, and structural equation modelling.

Illustrative example(s)

- survey methodology
- survey research
- survey research and survey methodology

Exclusion(s)

- research methodology and quantitative methods (See 45.0102-Research methodology and quantitative methods)

- survey engineering (See 14.3801-Survey engineering)
- survey technology (See 15.1102-Survey technology)

45.0199 General social sciences, other

This instructional program class comprises any program not listed above that relates to General social sciences.

Illustrative example(s)

- other general social sciences

45.02 Anthropology

This subseries comprises instructional program classes 45.0201 to 45.0299.

45.0201 Anthropology, general

This instructional program class comprises any program that focuses on the systematic study of human beings, their antecedents and related primates, and their cultural behaviour and institutions, in comparative perspective. These programs include courses in biological/physical anthropology, primatology, human paleontology and prehistoric archaeology, hominid evolution, anthropological linguistics, ethnography, ethnology, ethnohistory, sociocultural anthropology, psychological anthropology, research methods, and applications to areas such as medicine, forensic pathology, museum studies, and international affairs.

Illustrative example(s)

- anthropological sciences
- anthropology

Exclusion(s)

- ancient history (See 54.0199-History, other)
- ancient studies (See 30.2201-Ancient studies/civilization)
- anthrozoology (See 30.3401-Anthrozoology)
- archaeology (See 45.0301-Archaeology)
- ethnology (See 45.0204-Cultural anthropology)
- history (See 54.0101-History, general)
- medical anthropology (See 45.0203-Medical anthropology)
- museum studies (See 30.1401-Museology/museum studies)
- primatology (See 45.0202-Physical and biological anthropology)
- sociology and anthropology (See 45.1301-Sociology and anthropology)

45.0202 Physical and biological anthropology

This instructional program class comprises any program that focuses on the application of the biological sciences and anthropology to the study of the adaptations, variability, and the evolution of human beings and their living and fossil relatives. These programs include courses in anthropology, human and mammalian anatomy, cell biology, paleontology, human culture and behaviour, neuroscience, forensic anthropology, anatomical reconstruction, comparative anatomy, and laboratory science and methods.

Illustrative example(s)

- biological anthropology
- paleoanthropology
- physical anthropology
- primatology

Exclusion(s)

- anatomy (See 26.0403-Anatomy)
- ancient studies (See 30.2201-Ancient studies/civilization)
- anthropological sciences (See 45.0201-Anthropology, general)

- anthrozoology (See 30.3401-Anthrozoology)
- archaeology (See 45.0301-Archaeology)
- forensic anthropology (See 45.0205-Forensic anthropology)
- forensic science (See 43.0406-Forensic science and technology)
- history (See 54.0101-History, general)
- medical anthropology (See 45.0203-Medical anthropology)

45.0203 Medical anthropology

This instructional program class comprises any program that focuses on biological, socio-cultural, psychological, and behavioural factors as they relate to health, illness, medical practices, and access to health care services. These programs include courses in ethno-medicine, urban health, international health, psychiatric and psychological anthropology, aging, and health and identity.

Illustrative example(s)

- medical anthropology

Exclusion(s)

- anthropology (See 45.0201-Anthropology, general)
- cultural and social anthropology (See 45.0204-Cultural anthropology)
- forensic anthropology (See 45.0205-Forensic anthropology)
- physical anthropology (See 45.0202-Physical and biological anthropology)

45.0204 Cultural anthropology

This instructional program class comprises any program that focuses on the study of culture and the relationship of culture to other aspects of social life. These programs include courses in cultural anthropology, anthropological theory, ethnography, linguistics, and quantitative and qualitative research methods.

Illustrative example(s)

- cultural and social anthropology
- cultural anthropology
- ethnology
- socio-cultural anthropology

Exclusion(s)

- anthropology (See 45.0201-Anthropology, general)
- European cultural history (See 54.0103-European history)
- intercultural studies (See 30.2301-Intercultural/multicultural and diversity studies)
- medical anthropology (See 45.0203-Medical anthropology)
- religion and culture (See 38.0299-Religion/religious studies, other)
- religion, culture and ethics (See 38.0001-Philosophy and religious studies, general)

45.0205 Forensic anthropology

This instructional program class comprises any program that focuses on the application of the biological sciences and skeletal anthropology in medicolegal death investigations. These programs include courses in biological anthropology theory, crime scene investigation, forensic anthropology field methods, forensic anthropological techniques and procedures, human anatomy, methods of human identification, mortuary archaeology, osteology, and taphonomy.

Illustrative example(s)

- forensic anthropology

Exclusion(s)

- forensic identification (See 43.0406-Forensic science and technology)
- forensic pathology - fellowship (See 61.1807-Forensic pathology fellowship programs)

- forensic science (See 43.0406-Forensic science and technology)
- medical anthropology (See 45.0203-Medical anthropology)
- physical anthropology (See 45.0202-Physical and biological anthropology)

45.0299 Anthropology, other

This instructional program class comprises any program not listed above that relates to Anthropology.

Illustrative example(s)

- other anthropology

Exclusion(s)

- ancient studies (See 30.2201-Ancient studies/civilization)
- anthropology (See 45.0201-Anthropology, general)
- archaeology (See 45.0301-Archaeology)
- cultural resource management and policy analysis (See 30.1202-Cultural resource management and policy analysis)
- history (See 54.0101-History, general)
- museum studies (See 30.1401-Museology/museum studies)
- physical anthropology (See 45.0202-Physical and biological anthropology)

45.03 Archaeology

This subseries comprises instructional program class 45.0301.

45.0301 Archaeology

This instructional program class comprises any program that focuses on the systematic study of extinct societies, and the past of living societies, via the excavation, analysis and interpretation of their artifactual, human, and associated remains. These programs include courses in archaeological theory, field methods, dating methods, conservation and museum studies, cultural and physical evolution, and the study of specific past cultures.

Illustrative example(s)

- archaeology
- archaeometry
- classical archaeology
- historical archaeology

Exclusion(s)

- ancient studies (See 30.2201-Ancient studies/civilization)
- archaeological resources protection (See 43.0123-Cultural/archaeological resources protection)
- art conservation (See 50.0703-Art history, criticism and conservation)
- classical civilization (See 30.2202-Classical, ancient Mediterranean and Near Eastern studies and archaeology)
- cultural resource management and policy analysis (See 30.1202-Cultural resource management and policy analysis)
- museum studies (See 30.1401-Museology/museum studies)

45.04 Criminology

This subseries comprises instructional program class 45.0401.

45.0401 Criminology

This instructional program class comprises any program that focuses on the systematic study of crime as a sociopathological phenomenon, the behaviour of criminals, and the social institutions evolved to respond to crime. These programs include courses in the theory of crime, psychological and social bases of criminal behaviour, social value systems and the theory of punishment, criminal law and criminal justice systems, penology,

rehabilitation and recidivism, studies of specific types of crime, social attitudes and policy, and applications to specific issues in law enforcement administration and policy.

Illustrative example(s)

- applied criminology
- criminal deviance
- criminology

Exclusion(s)

- corrections (See 43.0102-Corrections)
- criminal justice studies (See 43.0100-Criminal justice and corrections, general)
- criminal justice system studies (See 43.0104-Criminal justice/safety studies)
- criminal law (except graduate level) (See 22.0101-Law (LLB, JD, BCL))
- criminal psychology (See 42.2812-Forensic psychology)
- criminal science (See 43.0402-Criminalistics and criminal science)
- forensic science (See 43.0406-Forensic science and technology)
- psychosociology (See 42.2707-Social psychology)

Inclusion(s)

- victimology

45.05 Demography

This subseries comprises instructional program classes 45.0501 to 45.0599.

45.0501 Demography and population studies

This instructional program class comprises any program that focuses on the systematic study of population models and population phenomena, and related problems of social structure and behaviour. These programs include courses in population growth, spatial distribution, mortality and fertility factors, migration, dynamic population modelling, population estimation and projection, mathematical and statistical analysis of population data, population policy studies, and applications to problems in economics and government planning.

Illustrative example(s)

- demography
- demography and population studies
- population studies
- social demography

Exclusion(s)

- applied demography (See 45.0502-Applied demography)
- epidemiology (See 26.1309-Epidemiology)
- human geography (See 45.0701-Geography)
- public health education and promotion (See 51.2207-Public health education and promotion)
- sociology (See 45.1101-Sociology, general)

45.0502 Applied demography

This instructional program class comprises any program that focuses on the practical application of demographic methods and materials for decision-making in business, education, health, and government. These programs include courses in statistics, research methods, geographic information systems, and demographic methods and techniques.

Illustrative example(s)

- applied demography

Exclusion(s)

- demography and population studies (See 45.0501-Demography and population studies)

45.0599 Demography, other

This instructional program class comprises any program not listed above that relates to Demography.

Illustrative example(s)

- other demography

45.06 Economics

This subseries comprises instructional program classes 45.0601 to 45.0699.

45.0601 Economics, general

This instructional program class comprises any general program that focuses on the systematic study of the production, conservation and allocation of resources in conditions of scarcity, together with the organizational frameworks related to these processes. These programs include courses in economic theory, microeconomics and macroeconomics, comparative economic systems, money and banking systems, international economics, quantitative analytical methods, and applications to specific industries and public policy issues.

Illustrative example(s)

- economic sciences
- economic studies
- economics

Exclusion(s)

- agricultural economics (See 01.0103-Agricultural economics)
- applied economics (See 45.0602-Applied economics)
- business economics (See 52.0601-Business/managerial economics)
- consumer economics (See 19.0402-Consumer economics)
- development economics (See 45.0604-Development economics and international development)
- econometrics (See 45.0603-Econometrics and quantitative economics)
- international economics (See 45.0605-International economics)
- natural resource economics (See 03.0204-Environmental/natural resource economics)
- pharmaceutical economics (See 51.2007-Pharmacoconomics/pharmaceutical economics (MS, MSc, PhD))
- political studies and economy (See 45.1004-Political economy)
- social economics (See 45.0699-Economics, other)

45.0602 Applied economics

This instructional program class comprises any program that focuses on the application of economic principles and analytical techniques to the study of particular industries, activities, or the exploitation of particular resources. These programs include courses in economic theory; microeconomic analysis and modelling of specific industries and commodities; the economic consequences of resource allocation decisions; regulatory and consumer factors; and the technical aspects of specific subjects as they relate to economic analysis.

Illustrative example(s)

- applied economics
- behavioural and experimental economics
- industrial economics

Exclusion(s)

- business economics (See 52.0601-Business/managerial economics)
- econometrics (See 45.0603-Econometrics and quantitative economics)
- economics (See 45.0601-Economics, general)

- international economics (See 45.0605-International economics)

45.0603 Econometrics and quantitative economics

This instructional program class comprises any program that focuses on the systematic study of mathematical and statistical analysis of economic phenomena and problems. These programs include courses in economic statistics, optimization theory, cost/benefit analysis, price theory, economic modelling, and economic forecasting and evaluation.

Illustrative example(s)

- econometrics
- quantitative economics

Exclusion(s)

- applied economics (See 45.0602-Applied economics)
- applied statistics (See 27.0601-Applied statistics, general)
- mathematical economics (See 30.4901-Mathematical economics)
- mathematical sciences (See 27.0301-Applied mathematics, general)
- mathematical statistics (See 27.0502-Mathematical statistics and probability)
- operations research (See 14.3701-Operations research)

45.0604 Development economics and international development

This instructional program class comprises any program that focuses on the systematic study of the economic development process and its application to the problems of specific countries and regions. These programs include courses in economic development theory, industrialization, land reform, infrastructural development, investment policy, the role of governments and business in development, international development organizations, and the study of social, health, and environmental influences on economic development.

Illustrative example(s)

- community economic development
- development economics
- development economics and international development
- economic development
- international development
- international development studies
- northern international development

Exclusion(s)

- applied economics (See 45.0602-Applied economics)
- international business (See 52.1101-International business/trade/commerce)
- international economics (See 45.0605-International economics)
- international finance (See 52.0806-International finance)
- international public policy (See 44.0504-International public policy analysis)
- regional and urban development (See 04.0301-City/urban, community and regional planning)

45.0605 International economics

This instructional program class comprises any program that focuses on the systematic study and analysis of international commercial behaviour and trade policy. These programs include courses in international trade theory, tariffs and quotas, commercial policy, trade factor flows, international finance and investment, currency regulation and trade exchange rates and markets, international trade negotiation, and international payments and accounting policy.

Illustrative example(s)

- global economics
- international economics

Exclusion(s)

- economics (See 45.0601-Economics, general)
- international business (See 52.1101-International business/trade/commerce)
- international development (See 45.0604-Development economics and international development)
- international finance (See 52.0806-International finance)
- international public policy (See 44.0504-International public policy analysis)
- international studies (See 30.2001-International/globalization studies)

45.0699 Economics, other

This instructional program class comprises any program not listed above that relates to Economics.

Illustrative example(s)

- history of economics
- other economics
- social economics

Exclusion(s)

- economics (See 45.0601-Economics, general)

45.07 Geography and cartography

This subseries comprises instructional program classes 45.0701 to 45.0799.

45.0701 Geography

This instructional program class comprises any program that focuses on the systematic study of the spatial distribution and interrelationships of people, natural resources, plant and animal life. These programs include courses in historical and political geography, cultural geography, economic and physical geography, regional science, cartographic methods, remote sensing, spatial analysis, and applications to areas such as land-use planning, development studies, and analyses of specific countries, regions, and resources.

Illustrative example(s)

- applied geography
- cultural geography
- geographic sciences
- geography
- human geography
- physical geography
- social geography

Exclusion(s)

- demography (See 45.0501-Demography and population studies)
- environmental geography (See 30.4401-Geography and environmental studies)
- geodetic engineering (See 14.3801-Surveying engineering)
- geography teacher education (See 13.1332-Geography teacher education)
- geomatics (See 45.0702-Geographic information science and cartography)
- range and pasture management (See 01.1106-Range science and management)
- surveying (See 15.1102-Surveying technology/surveying)

45.0702 Geographic information science and cartography

This instructional program class comprises any program that focuses on the systematic study of map-making and the application of mathematical, computer, and other techniques to the analysis of large amounts of geographic data and the science of mapping geographic information. These programs include courses in cartographic theory and map projections, computer-assisted cartography, geographic information systems, map design and layout,

photogrammetry, air photo interpretation, remote sensing, spatial analysis, geodesy, cartographic editing, and applications to specific industrial, commercial, research, and governmental mapping problems.

Illustrative example(s)

- cartography
- digital mapping
- geographic information systems
- geomatics
- geomatics technician
- GIS
- map design
- photogrammetry
- remote sensing
- topography

Exclusion(s)

- drafting (See 15.1301-Drafting and design technology/technician, general)
- geography (See 45.0701-Geography)
- geospatial intelligence (GEOINT) (See 43.0407-Geospatial intelligence)
- marine sciences (See 30.3201-Marine sciences)
- surveying (See 15.1102-Surveying technology/surveying)
- surveying engineering (See 14.3801-Survey engineering)
- topology (See 27.0105-Topology and foundations)

45.0799 Geography and cartography, other

This instructional program class comprises any program not listed above that relates to Geography and cartography.

Illustrative example(s)

- historical geography
- other geography and cartography

Exclusion(s)

- Earth science (See 40.0601-Geology/Earth science, general)
- geographic information systems (GIS) (See 45.0702-Geographic information science and cartography)
- geography (See 45.0701-Geography)
- geography teacher education (See 13.1332-Geography teacher education)

45.09 International relations and national security studies

This subseries comprises instructional program classes 45.0901 to 45.0999.

45.0901 International relations and affairs

This instructional program class comprises any program that focuses on the systematic study of international politics and institutions, and the conduct of diplomacy and foreign policy. These programs include courses in international relations theory, foreign policy analysis, national security and strategic studies, international law and organization, the comparative study of specific countries and regions, and the theory and practice of diplomacy.

Illustrative example(s)

- foreign policy and diplomacy
- international affairs
- international politics
- international relations

Exclusion(s)

- international public policy (See 44.0504-International public policy analysis)
- international studies (See 30.2001-International/globalization studies)
- military history (See 54.0108-Military history)
- national security studies (See 45.0902-National security policy studies)
- peace studies and conflict resolution (See 30.0501-Peace studies and conflict resolution)
- political science and government (See 45.1001-Political science and government, general)

45.0902 National security policy studies

This instructional program class comprises any program that focuses on the theory and application of intelligence, diplomacy, military power, and related tools of statecraft to national defense policy formulation and power projection. These programs include courses in history, political theory, public policy analysis, civil-military relations, military and defense studies, public safety, leadership, threat scenarios, regional and local issues, alliance and coalition issues, defense budgeting and economics, intelligence, and strategy.

Illustrative example(s)

- Canadian security studies programme
- national security policy studies
- national security programme
- national security studies

Exclusion(s)

- international relations (See 45.0901-International relations and affairs)
- security and defence management and policy (See 28.0801-Military science, leadership and operational art)

45.0999 International relations and national security studies, other

This instructional program class comprises any program not listed above that relates to International relations and national security studies.

Illustrative example(s)

- other international relations and national security studies

45.10 Political science and government

This subseries comprises instructional program classes 45.1001 to 45.1099.

45.1001 Political science and government, general

This instructional program class comprises any general program that focuses on the systematic study of political institutions and behaviour. These programs include courses in political philosophy, political theory, comparative government and politics, political parties and interest groups, public opinion, political research methods, studies of the government and politics of specific countries, and studies of specific political institutions and processes.

Illustrative example(s)

- comparative government and politics
- comparative politics
- political philosophy
- political science
- political science and government
- political studies

Exclusion(s)

- American politics (See 45.1002-American government and politics (United States))
- Canadian government and politics (See 45.1003-Canadian government and politics)
- international politics (See 45.0901-International relations and affairs)

- political communication (See 09.0904-Political communication)
- political studies and economy (See 45.1004-Political economy)
- public administration (See 44.0401-Public administration, general)
- public policy analysis (See 44.0501-Public policy analysis, general)

45.1002 American government and politics (United States)

This instructional program class comprises any program that focuses on the systematic study of United States political institutions and behaviour. These programs include courses in American political theory, political parties and interest groups, state and local governments, Constitutional law, federalism and national institutions, executive and legislative politics, judicial politics, popular attitudes and media influences, political research methods, and applications to the study of specific issues and institutions.

Illustrative example(s)

- American government and politics
- American politics
- United States government and politics
- US government and politics

Exclusion(s)

- American studies (See 05.0102-American/United States studies/civilization)
- political communication (See 09.0904-Political communication)
- political science and government (See 45.1001-Political science and government, general)
- public administration (See 44.0401-Public administration, general)
- United States history (See 54.0102-American history (United States))

45.1003 Canadian government and politics

This instructional program class comprises any program that focuses on the systematic study of Canadian political institutions and behaviour. These programs include courses in British and North American political theory, political parties and interest groups, provincial and local governments, Constitutional law, federalism and national institutions, executive and legislative politics, judicial politics, popular attitudes and media influences, political research methods, and applications to the study of specific issues and institutions.

Illustrative example(s)

- Canadian government and politics
- Canadian political science
- Canadian political studies
- Canadian politics

Exclusion(s)

- Canadian history (See 54.0107-Canadian history)
- Canadian studies (See 05.0115-Canadian studies)
- political communication (See 09.0904-Political communication)
- political science and government (See 45.1001-Political science and government, general)
- public administration (See 44.0401-Public administration, general)
- public policy analysis (See 44.0501-Public policy analysis, general)

45.1004 Political economy

This instructional program class comprises any program that focuses on the interaction between politics and economics in the formation of public policy. These programs include courses in microeconomics; macroeconomics; political theory; Canadian, comparative, and international political economy; and quantitative methods.

Illustrative example(s)

- international political economy

- political economy
- political economy and government
- political studies and economy

Exclusion(s)

- economics (See 45.0601-Economics, general)
- international public policy (See 44.0504-International public policy analysis)
- political science (See 45.1001-Political science and government, general)

45.1099 Political science and government, other

This instructional program class comprises any program not listed above that relates to Political science and government.

Illustrative example(s)

- other political science and government

Exclusion(s)

- American politics (See 45.1002-American government and politics (United States))
- Canadian government and politics (See 45.1003-Canadian government and politics)
- international politics (See 45.0901-International relations and affairs)
- political communication (See 09.0904-Political communication)
- public administration (See 44.0401-Public administration, general)
- public policy analysis (See 44.0501-Public policy analysis, general)
- public relations and communication management (See 09.0902-Public relations/image management)

45.11 Sociology

This subseries comprises instructional program classes 45.1101 to 45.1199.

45.1101 Sociology, general

This instructional program class comprises any program that focuses on the systematic study of human social institutions and social relationships. These programs include courses in social theory, sociological research methods, social organization and structure, social stratification and hierarchies, dynamics of social change, family structures, social deviance and control, and applications to the study of specific social groups, social institutions, and social problems.

Illustrative example(s)

- sociology

Exclusion(s)

- applied sociology (See 45.1102-Applied/public sociology)
- human ecology (See 19.0101-Family and consumer sciences/human sciences, general)
- rural sociology (See 45.1103-Rural sociology)
- social psychology (See 42.2707-Social psychology)
- sociology and anthropology (See 45.1301-Sociology and anthropology)
- sociology education (See 13.1317-Social science teacher education)
- sociology of health and aging (See 45.1199-Sociology, other)

45.1102 Applied/public sociology

This instructional program class comprises any program that focuses on the application of sociological theory, methods, skills, and research to resolve particular issues in real-world settings. These programs include courses in data collection, group and organizational dynamics, participatory action research, program evaluation, sociological research methods, and sociological theory.

Illustrative example(s)

- applied sociology
- public sociology

Exclusion(s)

- rural sociology (See 45.1103-Rural sociology)
- sociology (See 45.1101-Sociology, general)

45.1103 Rural sociology

This instructional program class comprises any program that focuses on the structure and function of rural societies. These programs include courses in sociological theory, research methods, statistics, sociology of agriculture, community development, social and economic development, demography, rural poverty, gender roles in rural societies, and environmental sociology.

Illustrative example(s)

- rural development studies
- rural sociology

Exclusion(s)

- applied sociology (See 45.1102-Applied/public sociology)
- sociology (See 45.1101-Sociology, general)

45.1199 Sociology, other

This instructional program class comprises any program not listed above that relates to Sociology.

Illustrative example(s)

- other sociology
- sociology of health and aging

45.12 Urban studies/affairs

This subseries comprises instructional program class 45.1201.

45.1201 Urban studies/affairs

This instructional program class comprises any program that focuses on the application of social science principles to the study of urban institutions and the forces influencing urban social and political life. These programs include courses in urban theory, the development and evolution of urban areas, urban sociology, principles of urban and social planning, and the politics and economics of urban government and services.

Illustrative example(s)

- urban affairs
- urban studies

Exclusion(s)

- social economics (See 45.0699-Economics, other)
- sociology (See 45.1101-Sociology, general)
- urban education and leadership (See 13.0410-Urban education and leadership)
- urban forestry (See 03.0508-Urban forestry)
- urban planning (See 04.0301-City/urban, community and regional planning)

45.13 Sociology and anthropology

This subseries comprises instructional program class 45.1301.

45.1301 Sociology and anthropology

This instructional program class comprises any program that combines sociology and anthropology to study how society is organized, the origins and development of social institutions, social change, social organizations, race, class, gender and culture.

Illustrative example(s)

- sociology and anthropology

Exclusion(s)

- anthropology (See 45.0201-Anthropology, general)
- sociology (See 45.1101-Sociology, general)

45.15 Geography and anthropology

This subseries comprises instructional program class 45.1501.

45.1501 Geography and anthropology

This instructional program class comprises any program that focuses on human cultures and their adaptation to physical environments. These programs include courses in archaeology, biogeography, climatology, cultural anthropology, cultural geography, economic development, environmental geography, geomorphology, global environmental change, historical geography, mapping sciences, physical anthropology, political ecology, Quaternary studies, and urban geography.

Illustrative example(s)

- anthropology and geography
- geography and anthropology

Exclusion(s)

- anthropology (See 45.0201-Anthropology, general)
- geography (See 45.0701-Geography)

45.99 Social sciences, other

This subseries comprises instructional program class 45.9999.

45.9999 Social sciences, other

This instructional program class comprises any program not listed above that relates to Social sciences.

Illustrative example(s)

- childhood and social institutions
- equity studies
- human rights studies
- other social sciences
- social and political thought
- social justice

Exclusion(s)

- social demography (See 45.0501-Demography and population studies)
- social sciences (See 45.0101-Social sciences, general)
- sociology (See 45.1101-Sociology, general)

46. Construction trades

This series comprises instructional programs that prepare individuals to apply technical knowledge and skills in the building, inspecting, and maintaining of structures and related properties.

46.00 Construction trades, general

This subseries comprises instructional program class 46.0000.

46.0000 Construction trades, general

This instructional program class comprises any program that generally prepares individuals to apply technical knowledge and skills in the building, inspecting, and maintaining of structures and related properties. These programs include courses in masonry, carpentry, electrical and power transmission installation, building/construction finishing, management, inspection and other construction-related applications.

Illustrative example(s)

- construction
- construction craft labourer
- construction craft worker
- construction trades
- general construction

Exclusion(s)

- construction drafting (See 15.1303-Architectural drafting and architectural CAD/CADD)
- construction engineering (See 14.3301-Construction engineering)
- construction engineering technology (See 15.1001-Construction engineering technology/technician)
- construction equipment operation (See 49.0202-Construction/heavy equipment/earthmoving equipment operation)
- construction management (See 52.2001-Construction management, general)
- introduction to trades (See 21.0101-Pre-technology education/pre-industrial arts programs)
- residential construction (See 46.0415-Building construction technology/technician)

46.01 Masonry/mason

This subseries comprises instructional program class 46.0101.

46.0101 Masonry/mason

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills in the laying and/or setting of exterior brick, concrete block, hard tile, marble and related materials, using trowels, levels, hammers, chisels, and other hand tools. These programs include courses in technical mathematics, blueprint reading, structural masonry, decorative masonry, foundations, reinforcement, mortar preparation, cutting and finishing, and applicable codes and standards.

Illustrative example(s)

- brick and stone mason
- bricklaying
- bricklaying-masonry
- concrete block laying
- mason
- masonry
- masonry restoration
- restoration stone mason
- stone masonry

Exclusion(s)

- concrete finishing (See 46.0402-Concrete finishing/concrete finisher)

46.02 Carpentry/carpenter

This subseries comprises instructional program class 46.0201.

46.0201 Carpentry/carpenter

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to lay out, cut, fabricate, erect, install, and repair wooden structures and fixtures, using hand and power tools. These programs include courses in technical mathematics, framing, construction materials and selection, job estimating, blueprint reading, foundations and roughing-in, finish carpentry techniques, and applicable codes and standards.

Illustrative example(s)

- carpenter
- carpenter-joiner
- carpentry
- construction carpentry
- finishing carpentry
- framer (carpentry)
- general carpenter

Exclusion(s)

- cabinet making (See 48.0703-Cabinetmaking and millwork)
- woodworking (See 48.0701-Woodworking, general)

46.03 Electrical and power transmission installers

This subseries comprises instructional program classes 46.0301 to 46.0399.

46.0301 Electrical and power transmission installation/installer, general

This instructional program class comprises any program that generally prepares individuals to apply technical knowledge and skills to install indoor and outdoor residential, commercial, and industrial electrical systems, and associated power transmission lines. These programs include courses in electricity, safety procedures, wiring, insulation and grounding, schematic blueprint interpretation, equipment operation and maintenance, and applicable codes and standards.

Illustrative example(s)

- electrical and power transmission installation
- electrical and power transmission installer
- electrical systems installation
- power transmission systems installation
- solar photovoltaic systems technician
- solar photovoltaic technician

Exclusion(s)

- electrical and electronics engineering (See 14.1001-Electrical and electronics engineering)
- electrical power lineman/linewoman (See 46.0303-Lineworker)
- electrical repair (See 47.0101-General electrical/electronics equipment installation and repair technology/technician)
- electrical, electronic and communications engineering technology (See 15.0303-Electrical, electronic, and communications engineering technology/technician)
- electrician (See 46.0302-Electrician)
- power system electrician (See 46.0302-Electrician)
- solar energy technology (See 15.1703-Solar energy technology/technician)
- solar panel installation (See 47.0703-Solar energy system installation and repair technology/technician)

46.0302 Electrician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to install, operate, maintain, and repair electric apparatus and systems such as residential, commercial,

and industrial electric-power wiring; and DC and AC motors, controls, and electrical distribution panels. These programs include courses in the principles of electronics and electrical systems, wiring, power transmission, safety, industrial and household appliances, job estimation, electrical testing and inspection, and applicable codes and standards.

Illustrative example(s)

- construction electrician
- electrician
- industrial electrician
- licensed electrician
- master electrician
- power electrician
- power station electrician
- power system electrician
- power systems electrician

Exclusion(s)

- electrical and power transmission installation (See 46.0301-Electrical and power transmission installation/installer, general)
- electrical power lineman/linewoman (See 46.0303-Lineworker)
- electrical repair (See 47.0101-General electrical/electronics equipment installation and repair technology/technician)
- electrical, electronic and communications engineering technology (See 15.0303-Electrical, electronic, and communications engineering technology/technician)
- electromechanical technician (See 15.0403-Electromechanical/electromechanical engineering technology/technician)
- industrial electronics technician (See 47.0105-Industrial electronics technology/technician)
- power systems operator (See 15.1702-Power plant technology/technician)

46.0303 Lineworker

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to install, operate, maintain and repair local, long-distance, and rural electric power cables and communication lines; erect and construct pole and tower lines; and install underground lines and cables. These programs include courses in cable installation and repair, fibre-optic technology, trenching, mobile equipment and crane operation, high-voltage installations, maintenance and inspection, safety, remote communications, and applicable codes and standards.

Illustrative example(s)

- cable splicer
- fibre optics technician
- high voltage lineman/linewoman
- lineman/linewoman
- power line installation
- power lineman/linewoman
- powerline electrician
- powerline technician
- telephone line repair
- telephone lineman/linewoman

Exclusion(s)

- electrical and power transmission installation (See 46.0301-Electrical and power transmission installation/installer, general)
- electrical repair (See 47.0101-General electrical/electronics equipment installation and repair technology/technician)

- electrical, electronic and communications engineering technology (See 15.0303-Electrical, electronic, and communications engineering technology/technician)
- electrician (See 46.0302-Electrician)
- electromechanical technician (See 15.0403-Electromechanical/electromechanical engineering technology/technician)
- telecommunication engineering (See 14.1004-Telecommunications engineering)

46.0399 Electrical and power transmission installers, other

This instructional program class comprises any program not listed above that relates to Electrical and power transmission installers.

Illustrative example(s)

- other electrical and power transmission installers

46.04 Building/construction finishing, management and inspection

This subseries comprises instructional program classes 46.0401 to 46.0499.

46.0401 Building/property maintenance

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to keep a building functioning, and to service a variety of structures including commercial and industrial buildings and mobile homes. These programs include courses in the basic maintenance and repair skills required to service building systems, such as air conditioning, heating, plumbing, electrical, major appliances, and other mechanical systems.

Illustrative example(s)

- building envelope technician
- building maintenance
- building service technician
- facilities mechanic
- facilities technician
- property maintenance
- residential building maintenance worker

Exclusion(s)

- construction management (See 52.2001-Construction management, general)
- construction site management (See 46.0412-Building/construction site management/manager)
- facilities management (See 19.0604-Facilities planning and management)
- heating, ventilation, air conditioning and refrigeration mechanic (See 47.0201-Heating, air conditioning, ventilation and refrigeration maintenance technology/technician)
- real estate (See 52.1501-Real estate)

46.0402 Concrete finishing/concrete finisher

This instructional program class comprises any program that prepares individuals to prepare, construct, and finish buildings, components, and related structures using masonry mixtures of stone, gravel, sand, cement, and water. These programs include courses in site preparation, applied mathematics, mixing formulas and applications, job estimation, concrete design, finishing techniques, mold preparation, reinforcement installation, site safety, and equipment operation and maintenance.

Illustrative example(s)

- cement finisher
- cement finishing
- cement mason
- cement-applicator operator
- concrete finisher

- concrete finishing
- concrete preparation and finishing

Exclusion(s)

- concrete block laying (See 46.0101-Masonry/mason)

46.0403 Building/home/construction inspection/inspector

This instructional program class comprises any program that prepares individuals to apply industrial, labour, and governmental standards and laws to the oversight of construction projects and the maintenance of completed buildings and other structures. These programs include courses in construction processes and techniques, materials analysis, occupational safety and health, industry standards, building codes and specifications, blueprint interpretation, testing equipment and procedures, communication skills, accident investigation, and documentation.

Illustrative example(s)

- building inspection
- building inspection technology
- building inspector
- construction inspection
- construction inspector
- home inspection
- home inspector

Exclusion(s)

- construction management (See 52.2001-Construction management, general)
- construction supervision (See 46.0412-Building/construction site management/manager)
- quality inspector training (See 15.0702-Quality control technology/technician)

46.0404 Drywall installation/drywaller

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to install, tape, and plaster drywall installations in interior and exterior construction jobs. These programs include courses in drywall handling and transport, cutting and mounting, taping and spackling, finishing, job analysis and estimation, site safety, tool operation and maintenance, blueprint and specification interpretation, and applicable codes and standards.

Illustrative example(s)

- drywall and acoustical mechanic
- drywall finisher and plasterer
- drywall finishing
- drywall installation
- drywall installer and finisher
- drywall taping
- drywall, acousting and lathing applicator
- lather (interior systems mechanic)
- plastering
- wall and ceiling installation

Exclusion(s)

- thermal insulation installer (See 46.0414-Insulator)

46.0406 Glazier

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to install and repair fixtures, sheets, windows, and skylights made of glass, plexiglass, and other transparent materials. These programs include courses in site measurement, job analysis and estimation,

material cutting and trimming, window and door installation, site safety, equipment operation and maintenance, specification interpretation, and applicable codes and standards.

Illustrative example(s)

- architectural glass and metal mechanic
- erector mechanic (glazier)
- glassworker (glazier)
- glazier
- glazier - auto glass technician

Exclusion(s)

- auto body repair (See 47.0603-Autobody/collision and repair technology/technician)
- dispensing optician (See 51.1801-Opticianry/ophthalmic dispensing optician)
- glass blowing (See 50.0799-Fine arts and art studies, other)

46.0408 Painting/painter and wall coverer

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to finish exterior and interior structural surfaces by applying protective or decorative coating materials, such as paint, lacquer, and wallpaper. These programs include courses in surface preparation; selecting, preparing, and applying paints and other coatings; hanging wallpaper; equipment operation and maintenance; finish selection; safety and clean-up; environmental effects on finishes; adhesion properties; and applicable codes and standards.

Illustrative example(s)

- commercial painting
- house painting
- painter and wall coverer
- wallpaper hanger

Exclusion(s)

- auto body painting (See 47.0603-Autobody/collision and repair technology/technician)
- carpet, flooring, and tile technician (See 46.0413-Carpet, floor, and tile worker)
- commercial art (See 50.0402-Commercial and advertising art)
- fine art painting (See 50.0708-Painting)
- interior decorating (See 19.0605-Home furnishings and equipment installers)
- interior design(See 50.0408-Interior design)

46.0410 Roofer

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to prepare, install, and maintain exterior roofing materials and roofs. These programs include courses in building materials, flashing, lag bolts, site safety, equipment operation and maintenance, layering, site preparation, basic internal structural design, finishing, waterproofing, and applicable codes and standards.

Illustrative example(s)

- commercial roofing
- industrial roofing
- roofer
- roofing

Exclusion(s)

- construction trades (See 46.0000-Construction trades, general)
- thermal insulation installer (See 46.0414-Insulator)

46.0411 Metal building assembly/assembler

This instructional program class comprises any program that prepares individuals to construct industrial, storage, and commercial metal structures using prefabricated framing and siding components. These programs include courses in sheet metal working, ironworking, assembly and fastening techniques, blueprint reading, site preparation, structural design principles, safety, and applicable codes and regulations.

Illustrative example(s)

- metal building assembler
- metal building assembly
- metal structure assembler
- metal structure assembly
- prefabricated metal building assembler
- prefabricated metal building assembly
- prefabricated metal structure assembler
- prefabricated metal structure assembly

Exclusion(s)

- metal arts (See 50.0714-Metal arts)
- metallurgical engineering (See 14.2001-Metallurgical engineering)
- reinforcing steel erector (See 48.0509-Ironworking/ironworker)
- sheet metal (See 48.0506-Sheet metal technology/sheetworking)
- structural steel and plate fitter (See 48.0511-Metal fabricator)
- welding (See 48.0508-Welding technology/welder)

46.0412 Building/construction site management/manager

This instructional program class comprises any program that prepares individuals to supervise, manage, and inspect construction sites, buildings, and associated facilities. These programs include courses in site safety, personnel supervision, labour relations, diversity training, construction documentation, scheduling, resource and cost control, bid strategies, rework prevention, construction insurance and bonding, accident management and investigation, applicable laws and regulations, and communication skills.

Illustrative example(s)

- building site management
- building site manager
- construction foreman/forewoman
- construction site management
- construction site manager
- construction supervision

Exclusion(s)

- building inspection (See 46.0403-Building/home/construction inspection/inspector)
- construction engineering (See 14.3301-Construction engineering)
- construction engineering technology (See 15.1001-Construction engineering technology/technician)
- construction management (See 52.2001-Construction management, general)
- construction technology (See 46.0415-Building construction technology/technician)
- quality inspector training (See 15.0702-Quality control technology/technician)

46.0413 Carpet, floor, and tile worker

This instructional program class comprises any program that prepares individuals to plan, prepare, install, and repair carpet; linoleum; vinyl; ceramic, marble, quarry, mosaic, and terrazzo tiles; and wood materials on floors, walls, and stairs. These programs include courses in measuring, cutting, and installing materials; use of hand and power-operated equipment; estimation of material and labour costs; and safety training.

Illustrative example(s)

- carpet installation
- carpet, flooring, and tile technician
- carpet, linoleum, and soft tile layer
- ceramic tile installation
- floor covering installer
- floor laying
- flooring and hardwood technician
- terrazzo, tile and marble setter
- tilesetter
- tiling and flooring technician

Exclusion(s)

- interior decorating (See 19.0605-Home furnishings and equipment installers)
- wallpaper hanger (See 46.0408-Painting/painter and wall coverer)

46.0414 Insulator

This instructional program class comprises any program that prepares individuals to apply insulation materials to pipes, boilers, ducts, refrigeration systems, and related equipment to reduce the passage of heat, cold, sound, or fire. These programs include courses in insulation specifications, measuring and cutting insulating material, applying and securing insulation, installing vapour barriers, insulation system maintenance, asbestos removal and abatement, and safety training.

Illustrative example(s)

- boiler and pipe insulator
- firestopping insulator
- heat and frost insulator
- insulation
- insulator
- insulator (heat and frost)
- sound insulator
- thermal insulation installer

Exclusion(s)

- roofer (See 46.0410-Roofer)
- wall and ceiling installation (See 46.0404-Drywall installation/drywaller)

46.0415 Building construction technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to residential and commercial building construction and remodelling. These programs include courses in construction equipment and safety; site preparation and layout; construction estimating; blueprint reading; building codes; framing; masonry; heating, ventilation, and air conditioning; electrical and mechanical systems; interior and exterior finishing; and plumbing.

Illustrative example(s)

- building construction technician
- building construction technology
- building renovation technician
- building restoration technician
- commercial construction
- commercial construction technician
- construction technology
- home building
- residential construction

- residential construction technician

Exclusion(s)

- construction (See 46.0000-Construction trades, general)
- construction engineering technology (See 15.1001-Construction engineering technology/technician)
- construction site management (See 46.0412-Building/construction site management/manager)

46.0499 Building/construction finishing, management and inspection, other

This instructional program class comprises any program not listed above that relates to Building/construction finishing, management and inspection.

Illustrative example(s)

- other building/construction finishing, management and inspection

Exclusion(s)

- construction (See 46.0000-Construction trades, general)

46.05 Plumbing and related water supply services

This subseries comprises instructional program classes 46.0502 to 46.0599.

46.0502 Pipefitting/pipefitter and sprinkler fitter

This instructional program class comprises any program that prepares individuals to design, install, and test industrial and commercial piping systems and automatic fire and exposure protection systems. These programs include courses in water systems, steam systems, heating and cooling systems, lubricating systems, piping materials, installation tools operation and maintenance, valve installation and repair, technical mathematics, blueprint interpretation, and applicable codes and standards.

Illustrative example(s)

- gas piping installation
- gasfitter
- pipefitter - fire protection mechanic specialty
- pipefitter - heating system installer specialty
- pipefitting
- sprinkler and fire protection installer
- sprinkler installation
- sprinkler systems installer
- steamfitter
- steamfitter-pipefitter

Exclusion(s)

- fire protection engineering technician (See 15.9999-Engineering/engineering-related technologies/technicians, other)
- heating, ventilation, air conditioning and refrigeration technician (See 15.0501-Heating, ventilation, air conditioning and refrigeration engineering technology/technician)
- pipefitter - plumber specialty (See 46.0503-Plumbing technology/plumber)
- pipefitter - refrigeration mechanic specialty (See 47.0201-Heating, air conditioning, ventilation and refrigeration maintenance technology/technician)
- security system installation and maintenance (See 47.0110-Security system installation, repair and inspection technology/technician)

46.0503 Plumbing technology/plumber

This instructional program class comprises any program that prepares individuals to practice as licensed plumbers by applying technical knowledge and skills to lay out, assemble, install, and maintain piping fixtures

and systems for steam, natural gas, oil, hot water, heating, cooling, drainage, lubricating, in home and business environments. These programs include courses in source determination, water distribution, waste removal, pressure adjustment, basic physics, technical mathematics, blueprint reading, pipe installation, pumps, welding and soldering, plumbing inspection, and applicable codes and standards.

Illustrative example(s)

- master plumber
- pipefitter - plumber specialty
- plumber
- plumbing
- plumbing technology

Exclusion(s)

- heating, ventilation, air conditioning and refrigeration mechanic (See 47.0201-Heating, air conditioning, ventilation and refrigeration maintenance technology/technician)
- heating, ventilation, air conditioning and refrigeration technician (See 15.0501-Heating, ventilation, air conditioning and refrigeration engineering technology/technician)
- pipefitting (See 46.0502-Pipefitting/pipefitter and sprinkler fitter)
- pressure welding (See 48.0508-Welding technology/welder)

46.0504 Well drilling/driller

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to set up, maintain, repair, and operate well drilling equipment; locate, drill, construct, and develop water, gas, and oil wells; and test and monitor wells to ensure adequate flow. These programs include courses with applications to home, business, and industrial uses.

Illustrative example(s)

- drilling
- natural gas drilling
- oil and gas drilling
- oil drilling
- oil field drilling
- oil well drilling
- oil well rigger
- water wells drilling
- well driller
- well drilling

Exclusion(s)

- drilling and blasting (See 46.0505-Blasting/blaster)
- mining and mineral engineering (See 14.2101-Mining and mineral engineering)
- mining technology (See 15.0901-Mining technology/technician)
- petroleum engineering (See 14.2501-Petroleum engineering)
- petroleum engineering technology (See 15.0903-Petroleum technology/technician)

46.0505 Blasting/blaster

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills in using a variety of explosive materials to aid in the construction process. These programs include courses in safety procedures for storing, handling, placement, charge power determination, drilling, pounding, building demolition, preparing rocky surfaces, building foundations and destruction of explosives.

Illustrative example(s)

- blaster
- blasting

- blasting technician
- drilling and blasting
- explosives technician
- surface blaster

Exclusion(s)

- oil and gas drilling (See 46.0504-Well drilling/driller)

46.0599 Plumbing and related water supply services, other

This instructional program class comprises any program not listed above that relates to Plumbing and related water supply services.

Illustrative example(s)

- other plumbing and related water supply services

46.99 Construction trades, other

This subseries comprises instructional program class 46.9999.

46.9999 Construction trades, other

This instructional program class comprises any program not listed above that relates to Construction trades.

Illustrative example(s)

- damage prevention technician
- elevator constructor
- elevator installation
- elevator mechanic
- elevator technology
- manlift technician
- other construction trades
- rope access technician
- utility locating technician

Exclusion(s)

- building renovation technician (See 46.0415-Building construction technology/technician)
- construction equipment operation (See 49.0202-Construction/heavy equipment/earthmoving equipment operation)
- ropes courses facilitator (See 31.0601-Outdoor education)

47. Mechanic and repair technologies/technicians

This series comprises instructional programs that prepare individuals to apply technical knowledge and skills in the adjustment, maintenance, part replacement, and repair of tools, equipment, and machines.

47.00 Mechanics and repairers, general

This subseries comprises instructional program class 47.0000.

47.0000 Mechanics and repairers, general

This instructional program class comprises any program that generally prepares individuals to apply technical knowledge and skills in the adjustment, maintenance, part replacement, and repair of tools, equipment, and machines.

Illustrative example(s)

- equipment mechanic
- equipment repair

- general mechanic
- machine mechanic
- machine repair
- maintenance mechanic
- mechanic

Exclusion(s)

- agricultural mechanics (See 01.0205-Agricultural mechanics and equipment/machine technology/technician)
- electromechanical technician (See 15.0403-Electromechanical/electromechanical engineering technology/technician)
- heavy equipment mechanic (See 47.0302-Heavy equipment maintenance technology/technician)
- heavy vehicle mechanic (See 47.0613-Medium/heavy vehicle and truck technology/technician)
- industrial mechanics (See 47.0303-Industrial mechanics and maintenance technology/technician)
- mechanical engineering (See 14.1901-Mechanical engineering)
- mechanical engineering technology (See 15.0805-Mechanical/mechanical engineering technology/technician)

47.01 Electrical/electronics maintenance and repair technologies/technicians

This subseries comprises instructional program classes 47.0101 to 47.0199.

47.0101 General electrical/electronics equipment installation and repair technology/technician

This instructional program class comprises any program that generally prepares individuals to apply technical knowledge and skills to operate, maintain, and repair electrical and electronic equipment. These programs include courses in electrical circuitry, simple gearing, linkages and lubrication of machines and appliances, and the use of testing equipment.

Illustrative example(s)

- electric motor winder
- electrical equipment installation and repair
- electrical maintenance
- electrical motor systems technician
- electrical repair
- electrical rewind mechanic
- electronic maintenance
- electronics equipment installation and repair
- electronics repair
- radio and TV repair

Exclusion(s)

- electrical and electronics engineering (See 14.1001-Electrical and electronics engineering)
- electrical and power transmission installation (See 46.0301-Electrical and power transmission installation/installer, general)
- electrician (See 46.0302-Electrician)
- electromechanical technician (See 15.0403-Electromechanical/electromechanical engineering technology/technician)
- electronic systems technician (See 15.0303-Electrical, electronic, and communications engineering technology/technician)
- industrial electronics technician (See 47.0105-Industrial electronics technology/technician)
- security system installation and maintenance (See 47.0110-Security system installation, repair and inspection technology/technician)

47.0102 Business machine repair

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to maintain and repair a variety of office machines, such as typewriters, word processing and dictation machines, calculators, duplicating machines, and mailing machines. These programs include courses in diagnostic techniques, the use of testing equipment, and the principles of mechanics, electricity, and electronics as they relate to the repair of business machines.

Illustrative example(s)

- business equipment repair
- business equipment technician
- business machine repair
- business machine technician
- office equipment maintenance
- office equipment maintenance technology
- office machine maintenance
- office machine repair
- office machine technician
- photocopier technician

Exclusion(s)

- computer repair (See 47.0104-Computer installation and repair technology/technician)

47.0103 Communications systems installation and repair technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to assemble, install, operate, maintain, and repair one- and two- way communications equipment and systems, including television cable systems and mobile or stationary communication devices. These programs include courses in diagnostic techniques, the use of testing equipment and the principles of mechanics, electricity, and electronics as they relate to the repair of communications systems.

Illustrative example(s)

- cable telecommunications technician
- cable television service installation
- cable television technician
- communication technician (apprenticeship)
- communications electrician (apprenticeship)
- communications systems installation and repair
- communications technician (apprenticeship)
- network cabling specialist (apprenticeship)
- telephone installation
- telephone repair

Exclusion(s)

- audiovisual technician (See 10.0299-Audiovisual communications technologies/technicians, other)
- communications technology (See 10.0105-Communications technology/technician)
- electrical technology (See 15.0303-Electrical, electronic, and communications engineering technology/technician)
- security system installation and maintenance (See 47.0110-Security system installation, repair and inspection technology/technician)
- telecommunications technology (See 15.0305-Telecommunications technology/technician)

47.0104 Computer installation and repair technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to assemble, install, operate, maintain, and repair computers and related equipment. These programs

include courses in power supplies, number systems, memory structure, buffers and registers, microprocessor design, peripheral equipment, programming, and networking.

Illustrative example(s)

- computer installation and repair
- computer repair
- computer repair technician
- computer service technician
- computer systems service technician
- microcomputer repair

Exclusion(s)

- business equipment repair (See 47.0102-Business machine repair)
- computer support specialist (See 11.1006-Computer support specialist)
- computer systems technology (See 15.1202-Computer/computer systems technology/technician)

47.0105 Industrial electronics technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to assemble, install, operate, maintain, and repair electrical/electronic equipment used in industry and manufacturing. These programs include courses in installing, maintaining and testing various types of equipment.

Illustrative example(s)

- industrial electronics
- industrial electronics technician
- industrial electronics technology

Exclusion(s)

- electrical and electronics engineering (See 14.1001-Electrical and electronics engineering)
- electrical and power transmission installation (See 46.0301-Electrical and power transmission installation/installer, general)
- electronic systems technician (See 15.0303-Electrical, electronic, and communications engineering technology/technician)
- electronics repair (See 47.0101-General electrical/electronics equipment installation and repair technology/technician)
- industrial electrician (See 46.0302-Electrician)
- industrial technician (See 15.0612-Industrial technology/technician)

47.0106 Appliance installation and repair technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to repair, install, and service major gas, electric, and consumer appliances such as stoves, microwaves, refrigerators, dryers, water heaters, washers, dishwashers, and commercial units such as ice makers and coffee makers.

Illustrative example(s)

- appliance installation and repair
- appliance repair
- appliance service technician
- appliance technician
- electronic service technician (consumer products)
- electronics technician (consumer products)
- gas appliance technician
- home appliance repair

Exclusion(s)

- general mechanic (See 47.0000-Mechanics and repairers, general)
- radio and TV repair (See 47.0101-General electrical/electronics equipment installation and repair technology/technician)
- telephone line installation (See 47.0103-Communications systems installation and repair technology/technician)

47.0110 Security system installation, repair and inspection technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to install and repair household, business, and industrial security alarms, sensors, video and sound recording devices, identification systems, protective barriers, and related technologies.

Illustrative example(s)

- alarm and security technician
- alarm installation
- fire alarm and protection system
- fire alarm technician
- security alarm installation
- security alarm service technician
- security alarm technician
- security and alarm systems technician
- security system installation and maintenance
- security system technician

Exclusion(s)

- computer systems security (See 11.1003-Computer and information systems security/auditing/information assurance)
- fire systems technology (See 43.0204-Fire systems technology)
- security services (See 43.0109-Security and loss prevention services)
- sprinkler systems installer (See 46.0502-Pipefitting/pipefitter and sprinkler fitter)

47.0199 Electrical/electronics maintenance and repair technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Electrical/electronics maintenance and repair technologies/technicians.

Illustrative example(s)

- motor rewinding
- motor winding
- other electrical/electronics maintenance and repair technologies/technicians

Exclusion(s)

- aircraft electronics service technician (See 47.0609-Avionics maintenance technology/technician)
- automotive electrical repair (See 47.0604-Automobile/automotive mechanics technology/technician)
- electric vehicle service technician (See 47.0614-Alternative fuel vehicle technology/technician)

47.02 Heating, air conditioning, ventilation and refrigeration maintenance technology/technician

This subseries comprises instructional program class 47.0201.

47.0201 Heating, air conditioning, ventilation and refrigeration maintenance technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to repair, install, service and maintain the operating condition of heating, air conditioning, and

refrigeration systems. These programs include courses in diagnostic techniques, the use of testing equipment and the principles of mechanics, electricity, and electronics as they relate to the repair of heating, air conditioning and refrigeration systems.

Illustrative example(s)

- central air conditioning installer
- furnace installer and repairer
- gas and oil burner technician
- heating and air conditioning mechanic
- heating systems technician
- heating, air conditioning and refrigeration mechanic
- heating, ventilation and air conditioning mechanic
- heating, ventilation, air conditioning and refrigeration mechanic
- pipefitter - refrigeration mechanic specialty
- transport refrigeration service technician

Exclusion(s)

- energy systems technology (See 15.1701-Energy systems technology/technician, general)
- heating, ventilation, air conditioning and refrigeration technician (See 15.0501-Heating, ventilation, air conditioning and refrigeration engineering technology/technician)
- insulation (See 46.0414-Insulator)
- pipefitting (See 46.0502-Pipefitting/pipefitter and sprinkler fitter)
- plumbing (See 46.0503-Plumbing technology/plumber)

47.03 Heavy/industrial equipment maintenance technologies/technicians

This subseries comprises instructional program classes 47.0302 to 47.0399.

47.0302 Heavy equipment maintenance technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills in the field maintenance and repair of heavy equipment, and in the general maintenance and overhaul of such equipment. These programs include courses in inspection, maintenance, and repair of tracks, wheels, brakes, operating controls, pneumatic and hydraulic systems, electrical circuitry, engines and in techniques of welding and brazing.

Illustrative example(s)

- construction heavy equipment mechanics
- fluid power and control mechanic
- heavy duty equipment mechanic
- heavy duty equipment technician
- heavy equipment maintenance
- heavy equipment mechanics
- heavy equipment service technician
- heavy equipment technology
- hydraulic mechanic
- hydraulic mechanics

Exclusion(s)

- agricultural mechanics (See 01.0205-Agricultural mechanics and equipment/machine technology/technician)
- heavy equipment operation (See 49.0202-Construction/heavy equipment/earthmoving equipment operation)
- heavy vehicle mechanic (See 47.0613-Medium/heavy vehicle and truck technology/technician)

47.0303 Industrial mechanics and maintenance technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to repair and maintain industrial machinery and equipment such as cranes, pumps, engines and motors, pneumatic tools, conveyor systems, production machinery, marine deck machinery, and steam propulsion, refinery, and pipeline-distribution systems.

Illustrative example(s)

- construction millwright
- industrial equipment technology
- industrial maintenance mechanic
- industrial maintenance technology
- industrial mechanic
- industrial mechanic (millwright)
- industrial millwright
- industrial plant technician
- millwright
- planer mill maintenance technician

Exclusion(s)

- engine machinist (See 47.0615-Engine machinist)
- industrial electronics technician (See 47.0105-Industrial electronics technology/technician)
- industrial machinist (See 48.0501-Machine tool technology/machinist)
- industrial technology (See 15.0612-Industrial technology/technician)

47.0399 Heavy/industrial equipment maintenance technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Heavy/industrial equipment maintenance technologies/technicians.

Illustrative example(s)

- other heavy/industrial equipment maintenance technologies/technicians

47.04 Precision systems maintenance and repair technologies/technicians

This subseries comprises instructional program classes 47.0402 to 47.0499.

47.0402 Gunsmithing/gunsmith

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to make, repair, maintain, and modify firearms according to blueprints or customer specifications, using specialized hand tools and machines.

Illustrative example(s)

- firearms repair
- gunsmith
- gunsmithing

Exclusion(s)

- firearms safety and handling (not for credit) (See 36.0121-Firearms training/safety (not for credit))
- machinist (See 48.0501-Machine tool technology/machinist)
- police science (See 43.0107-Criminal justice/police science)

47.0403 Locksmithing and safe repair

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to make, repair, maintain, modify, and open locks; to make keys; to enter and change lock and safe combinations; and install and repair safes.

Illustrative example(s)

- locksmith
- locksmithing
- locksmithing and safe repair

Exclusion(s)

- machinist (See 48.0501-Machine tool technology/machinist)
- security services (See 43.0109-Security and loss prevention services)
- tool making (See 48.0507-Tool and die technology/technician)

47.0404 Musical instrument fabrication and repair

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to make, repair, maintain, and tune acoustic and electric musical instruments. These programs include courses in methods and equipment for making musical instruments, electronic instrument amplification systems, techniques of cleaning, and methods of tuning musical instruments.

Illustrative example(s)

- musical instrument fabrication
- musical instrument repair
- piano technician
- piano technology
- piano tuning
- violin maker
- violin making

Exclusion(s)

- instrumental composition (See 50.0904-Music theory and composition)
- music (See 50.0901-Music, general)
- music performance (See 50.0903-Music performance, general)
- sound engineering (See 15.0307-Audio/sound engineering technology/technician)
- woodworking (See 48.0701-Woodworking, general)

47.0408 Watchmaking and jewellery making

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to make repairs, and maintain timepieces, time-measuring devices, and jewellery items. These programs include courses in mechanical timekeeping systems, digital timekeeping systems, timesetting, casting, engraving, polishing, stonesetting, soldering, fine microscopic work, equipment and tool maintenance, redesign and restyling techniques, and customer relations.

Illustrative example(s)

- clock repair
- clockmaker-jeweller
- clockmaking
- jeweller
- jewellery making
- jewellery repair
- master clockmaker
- watch repair
- watchmaking
- watchmaking and jewellery making

Exclusion(s)

- jewellery design (See 50.0713-Jewellery arts)

47.0409 Parts and warehousing operations and maintenance technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to maintain inventory control, care for inventory, and make minor repairs to warehouse equipment.

Illustrative example(s)

- automotive parts and light warehousing
- automotive partsman/partswoman
- automotive partsperson
- industrial warehousing
- parts and warehousing
- parts technician
- partsman/partswoman
- partsperson
- warehouse operations
- warehouse technician

Exclusion(s)

- auto parts sales (See 52.1907-Vehicle and vehicle parts and accessories marketing operations)
- parts and warehousing management (See 52.0409-Parts, warehousing and inventory management operations)

47.0499 Precision systems maintenance and repair technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Precision systems maintenance and repair technologies/technicians.

Illustrative example(s)

- other precision systems maintenance and repair technologies/technicians
- sports equipment fabrication and repair technician

47.06 Vehicle maintenance and repair technologies/technicians

This subseries comprises instructional program classes 47.0600 to 47.0699.

47.0600 Vehicle maintenance and repair technology/technician, general

This instructional program class comprises any program that generally prepares individuals to apply technical knowledge and skills in the adjustment, maintenance, part replacement, and repair of vehicles and mobile equipment.

Illustrative example(s)

- vehicle maintenance
- vehicle repair

Exclusion(s)

- alternative fuel powered vehicle technician (See 47.0614-Alternative fuel vehicle technology/technician)
- auto body repair (See 47.0603-Autobody/collision and repair technology/technician)
- automobile mechanic (See 47.0604-Automobile/automotive mechanics technology/technician)
- commercial transport vehicle mechanic (See 47.0613-Medium/heavy vehicle and truck technology/technician)
- diesel mechanic (See 47.0605-Diesel mechanics technology/technician)
- engine machinist (See 47.0615-Engine machinist)
- exhaust systems repair (See 47.0612-Vehicle emissions inspection and maintenance technology/technician)

47.0603 Autobody/collision and repair technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to repair, reconstruct and finish automobile bodies, fenders, and external features. These programs include courses in structure analysis, damage repair, non-structural analysis, mechanical and electrical components, plastics and adhesives, painting and refinishing techniques, and damage analysis and estimating.

Illustrative example(s)

- auto body mechanic
- auto body painting
- auto body repair
- auto body technician
- automotive collision repair technician
- automotive painter
- automotive refinishing technician
- automotive spray painting
- motor vehicle body refinisher
- motor vehicle body repairer (painter)

Exclusion(s)

- auto glass technician (See 46.0406-Glazier)
- fine art painting (See 50.0708-Painting)
- painter and wall coverer (See 46.0408-Painting/painter and wall coverer)
- parts and warehousing operations and maintenance (See 47.0409-Parts and warehousing operations and maintenance technology/technician)
- vehicle repair (See 47.0600-Vehicle maintenance and repair technology/technician, general)

47.0604 Automobile/automotive mechanics technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. These programs include courses in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems.

Illustrative example(s)

- alignment and brakes technician
- alignment mechanic
- automotive electrical repair
- automotive electronics
- automotive maintenance technician
- automotive mechanic
- automotive repair
- automotive service technician
- automotive transmission repair
- motor vehicle mechanic

Exclusion(s)

- agricultural mechanics (See 01.0205-Agricultural mechanics and equipment/machine technology/technician)
- auto body repair (See 47.0603-Autobody/collision and repair technology/technician)
- automotive engineering technician (See 15.0803-Automotive engineering technology/technician)
- brakeman/brakewoman (See 49.0208-Railroad and railway transportation)
- heavy vehicle mechanic (See 47.0613-Medium/heavy vehicle and truck technology/technician)
- high performance powertrain mechanic (See 47.0617-High performance and custom engine technician/mechanic)

- mechanical engineering technology (See 15.0805-Mechanical/mechanical engineering technology/technician)
- natural gas powered vehicle service technician (See 47.0614-Alternative fuel vehicle technology/technician)
- recreation vehicle (RV) mechanic (See 47.0618-Recreation vehicle (RV) service technician)
- vehicle repair (See 47.0600-Vehicle maintenance and repair technology/technician, general)

47.0605 Diesel mechanics technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain diesel engines in vehicles such as automobiles, buses, ships, trucks, railroad locomotives, and construction equipment; as well as stationary diesel engines in electrical generators and related equipment.

Illustrative example(s)

- automotive diesel mechanics
- diesel engine mechanic
- diesel mechanic
- diesel mechanics
- diesel service technician
- diesel technology
- heavy duty diesel mechanic
- locomotive diesel mechanics
- marine diesel mechanic
- stationary diesel mechanics

Exclusion(s)

- agricultural mechanics (See 01.0205-Agricultural mechanics and equipment/machine technology/technician)
- automobile mechanic (See 47.0604-Automobile/automotive mechanics technology/technician)
- automotive engineering technician (See 15.0803-Automotive engineering technology/technician)
- heavy equipment mechanic (See 47.0302-Heavy equipment maintenance technology/technician)
- heavy vehicle mechanic (See 47.0613-Medium/heavy vehicle and truck technology/technician)
- high performance powertrain mechanic (See 47.0617-High performance and custom engine technician/mechanic)
- marine engineering technology (See 15.0806-Marine engineering technology/technician)
- mechanical technology (See 15.0805-Mechanical/mechanical engineering technology/technician)
- small engine mechanic (See 47.0606-Small engine mechanics and repair technology/technician)
- vehicle repair (See 47.0600-Vehicle maintenance and repair technology/technician, general)

47.0606 Small engine mechanics and repair technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain small internal-combustion engines used on portable power equipment such as lawnmowers, chain saws, rotary tillers, and snowmobiles.

Illustrative example(s)

- outdoor power equipment technician
- small engine and equipment mechanic
- small engine mechanic
- small engine mechanics
- small engine repair
- small engine technician
- small gas engine repair
- small motor mechanic
- snowmobile mechanics

Exclusion(s)

- automobile mechanic (See 47.0604-Automobile/automotive mechanics technology/technician)
- diesel mechanic (See 47.0605-Diesel mechanics technology/technician)
- engine machinist (See 47.0615-Engine machinist)
- high performance powertrain mechanic (See 47.0617-High performance and custom engine technician/mechanic)

47.0607 Airframe mechanics and aircraft maintenance technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all aircraft components other than engines, propellers, avionics, and instruments. These programs include courses in layout and fabrication of sheet metal, fabric, wood, and other materials into structural members, parts, and fittings, and replacement of damaged or worn parts such as control cables and hydraulic units.

Illustrative example(s)

- aircraft maintenance engineer
- aircraft maintenance engineer technician
- aircraft maintenance journeyman/journeywoman
- aircraft maintenance journeyperson
- aircraft maintenance technician
- aircraft mechanic
- aircraft sheet metal mechanics
- aircraft structural repair technician
- aircraft structural technician
- airframe mechanic

Exclusion(s)

- aeronautical engineering technology (See 15.0801-Aeronautical/aerospace engineering technology/technician)
- aircraft engine mechanic (See 47.0608-Aircraft powerplant technology/technician)
- airplane pilot (See 49.0102-Airline/commercial/professional pilot and flight crew)
- aviation sciences (See 49.0101-Aeronautics/aviation/aerospace science and technology, general)
- avionics technician (See 47.0609-Avionics maintenance technology/technician)

47.0608 Aircraft powerplant technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of aircraft powerplant and related systems. These programs include courses in engine inspection and maintenance, lubrication and cooling, electrical and ignition systems, carburetion, fuels and fuel systems, propeller and fan assemblies.

Illustrative example(s)

- aero engine technician
- aircraft engine mechanic
- aircraft engine technician
- aircraft power plant mechanic

Exclusion(s)

- aeronautical engineering technology (See 15.0801-Aeronautical/aerospace engineering technology/technician)
- aircraft engineering (See 14.0201-Aerospace, aeronautical and astronautical/space engineering, general)
- aircraft mechanic (See 47.0607-Airframe mechanics and aircraft maintenance technology/technician)
- aviation sciences (See 49.0101-Aeronautics/aviation/aerospace science and technology, general)
- avionics technician (See 47.0609-Avionics maintenance technology/technician)

47.0609 Avionics maintenance technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of aircraft operating, control, and electronic systems. These programs include courses in flight instrumentation, aircraft communications and homing systems, radar and other sensory systems, navigation aids, and specialized systems for various types of civilian and military aircraft.

Illustrative example(s)

- aircraft electronics
- aircraft electronics service technician
- aircraft radar technician
- aviation electronics
- avionics
- avionics maintenance technician
- avionics technician
- avionics technology

Exclusion(s)

- aeronautical engineering technology (See 15.0801-Aeronautical/aerospace engineering technology/technician)
- aircraft engine mechanic (See 47.0608-Aircraft powerplant technology/technician)
- aircraft mechanic (See 47.0607-Airframe mechanics and aircraft maintenance technology/technician)
- electrical and electronics engineering (See 14.1001-Electrical and electronics engineering)
- electrical maintenance (See 47.0101-General electrical/electronics equipment installation and repair technology/technician)
- electromechanical technician (See 15.0403-Electromechanical/electromechanical engineering technology/technician)
- electronic systems technician (See 15.0303-Electrical, electronic, and communications engineering technology/technician)

47.0610 Bicycle mechanics and repair technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain bicycles and other human-powered vehicles. These programs include courses in lubrication, adjustments of moving parts, and wheel building.

Illustrative example(s)

- bicycle mechanics
- bicycle repair

Exclusion(s)

- motorcycle mechanic (See 47.0611-Motorcycle maintenance and repair technology/technician)

47.0611 Motorcycle maintenance and repair technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain motorcycles and other similar powered vehicles. These programs include courses in lubrication and cooling systems, electrical and ignition systems, carburetion, fuel systems and adjustments of moving parts.

Illustrative example(s)

- motorcycle mechanics
- motorcycle maintenance
- motorcycle mechanic
- motorcycle repair
- motorcycle service technician

- motorcycle technician

Exclusion(s)

- bicycle mechanics (See 47.0610-Bicycle mechanics and repair technology/technician)
- general mechanic (See 47.0000-Mechanics and repairers, general)
- small engine mechanic (See 47.0606-Small engine mechanics and repair technology/technician)

47.0612 Vehicle emissions inspection and maintenance technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to test, repair, service, and maintain vehicle emission systems in accordance with relevant laws and regulations.

Illustrative example(s)

- exhaust systems repair
- vehicle emissions inspection
- vehicle emissions technician

Exclusion(s)

- muffler installer (See 47.0699-Vehicle maintenance and repair technologies/technicians, other)
- vehicle repair (See 47.0600-Vehicle maintenance and repair technology/technician, general)

47.0613 Medium/heavy vehicle and truck technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles. These programs include courses in diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, preventive maintenance inspections, drive trains, gasoline engine mechanics, HVAC systems, and auxiliary equipment installation and repair.

Illustrative example(s)

- bus mechanic
- commercial transport vehicle mechanic
- heavy vehicle mechanic
- transport trailer mechanic
- transport trailer technician
- truck and coach technician
- truck and transport mechanic
- truck and transport service technician
- truck and transport technician
- truck mechanic

Exclusion(s)

- agricultural mechanics (See 01.0205-Agricultural mechanics and equipment/machine technology/technician)
- alternative fuel powered vehicle repair (See 47.0614-Alternative fuel vehicle technology/technician)
- automobile mechanic (See 47.0604-Automobile/automotive mechanics technology/technician)
- automotive engineering technician (See 15.0803-Automotive engineering technology/technician)
- diesel mechanic (See 47.0605-Diesel mechanics technology/technician)
- heavy equipment mechanic (See 47.0302-Heavy equipment maintenance technology/technician)
- industrial mechanics (See 47.0303-Industrial mechanics and maintenance technology/technician)
- machine mechanic (See 47.0000-Mechanics and repairers, general)
- recreation vehicle (RV) mechanic (See 47.0618-Recreation vehicle (RV) service technician)
- vehicle repair (See 47.0600-Vehicle maintenance and repair technology/technician, general)

47.0614 Alternative fuel vehicle technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to the maintenance of alternative fuel vehicles and the conversion of standard vehicles to AFV status. These programs include courses in electrical vehicles, liquefied petroleum gas (LPG) vehicles, compressed natural gas, (CNG) vehicles, hybrid fuel technology, electrical and electronic systems, engine performance, diagnosis and repair, and conversion/installation.

Illustrative example(s)

- alternative fuel powered vehicle repair
- alternative fuel powered vehicle technician
- electric vehicle service technician
- hybrid powered automobile service technician
- natural gas powered vehicle service technician

Exclusion(s)

- automobile mechanic (See 47.0604-Automobile/automotive mechanics technology/technician)
- heavy vehicle mechanic (See 47.0613-Medium/heavy vehicle and truck technology/technician)
- high performance powertrain mechanic (See 47.0617-High performance and custom engine technician/mechanic)
- vehicle repair (See 47.0600-Vehicle maintenance and repair technology/technician, general)

47.0615 Engine machinist

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to the building and reconstruction of automotive and commercial vehicle engines. These programs include courses in cylinder head and block, crack repair, crankshaft inspection and repair, connecting rods and pistons, balancing, block preparation, disassembly and repair, engine assembly, gas and diesel technology, and inspection and machining.

Illustrative example(s)

- engine machinist
- engine rebuilding

Exclusion(s)

- aircraft engine mechanic (See 47.0608-Aircraft powerplant technology/technician)
- automobile mechanic (See 47.0604-Automobile/automotive mechanics technology/technician)
- computer numerical control machining (See 48.0510-Computer numerically controlled (CNC) machinist technology/CNC machinist)
- diesel mechanic (See 47.0605-Diesel mechanics technology/technician)
- inboard and outboard motor mechanics (See 47.0616-Marine maintenance/fitter and ship repair technology/technician)
- machinist (See 48.0501-Machine tool technology/machinist)
- small engine mechanic (See 47.0606-Small engine mechanics and repair technology/technician)
- vehicle repair (See 47.0600-Vehicle maintenance and repair technology/technician, general)

47.0616 Marine maintenance/fitter and ship repair technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to repair outboard and inboard engines; test, maintain, and repair steering devices and electrical systems; repair metal, wood, and fibreglass hulls and vessel components; fabricate and maintain sails; and repair and balance propellers and drive shafts.

Illustrative example(s)

- fibreglass boat repair
- hull technician

- inboard and outboard motor technology
- inboard mechanic
- marine engine technician
- marine service technician
- outboard mechanic
- ship repair

Exclusion(s)

- marine diesel mechanic (See 47.0605-Diesel mechanics technology/technician)
- marine engineering (See 14.2201-Naval architecture and marine engineering)
- marine engineering technology (See 15.0806-Marine engineering technology/technician)
- wooden boat repair (See 48.0704-Wooden boatbuilding technology/technician)
- wooden boatbuilding (See 48.0704-Wooden boatbuilding technology/technician)

47.0617 High performance and custom engine technician/mechanic

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to increase the power of diesel and automotive engines; enhance the performance of automobiles; and repair, service, and maintain high performance vehicles. These programs include courses in adding performance accessories; modifying powertrains; tuning custom engines, suspension, and exhaust systems; and using dynamometers and other diagnostic equipment.

Illustrative example(s)

- automotive high performance mechanic
- automotive high performance technician
- custom engine mechanic
- high performance and custom engine mechanic
- high performance and custom engine technician
- high performance powertrain mechanic
- high performance powertrain technician

Exclusion(s)

- alternative fuel powered vehicle technician (See 47.0614-Alternative fuel vehicle technology/technician)
- automobile mechanic (See 47.0604-Automobile/automotive mechanics technology/technician)
- diesel mechanic (See 47.0605-Diesel mechanics technology/technician)
- motorsports engineering technician (See 15.0807-Motorsports engineering technology/technician)
- small engine mechanic (See 47.0606-Small engine mechanics and repair technology/technician)

47.0618 Recreation vehicle (RV) service technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to build, test, inspect, repair, service and maintain recreational vehicles, systems, and interior and exterior components. These programs include courses in brake, hydraulic, and towing systems; electrical systems; propane systems and propane and electric appliances; carpentry; plumbing; welding; and structural frames.

Illustrative example(s)

- recreation vehicle (RV) mechanic
- recreation vehicle (RV) service technician
- recreation vehicle (RV) technician
- recreation vehicle mechanic
- recreation vehicle service technician
- recreational vehicle service technician
- recreational vehicle technician
- RV mechanic

Exclusion(s)

- automobile mechanic (See 47.0604-Automobile/automotive mechanics technology/technician)
- truck and coach technician (See 47.0613-Medium/heavy vehicle and truck technology/technician)

47.0699 Vehicle maintenance and repair technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Vehicle maintenance and repair technologies/technicians.

Illustrative example(s)

- bearings mechanic
- elevating platform mechanics
- forklift mechanic
- fuel and lube technician
- muffler installer
- other vehicle maintenance and repair technologies
- railway car service and repair
- tire repair
- tire specialist

Exclusion(s)

- agricultural mechanics (See 01.0205-Agricultural mechanics and equipment/machine technology/technician)
- marine service technician (See 47.0616-Marine maintenance/fitter and ship repair technology/technician)
- mechanical engineering technology (See 15.0805-Mechanical/mechanical engineering technology/technician)

47.07 Energy systems maintenance and repair technologies/technicians

This subseries comprises instructional program classes 47.0701 to 47.0799.

47.0701 Energy systems installation and repair technology/technician, general

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to assemble, install, operate, maintain, and repair energy systems. These programs include courses in installing, maintaining and testing various types of equipment.

Illustrative example(s)

- energy systems installation
- energy systems installation and repair technician
- energy systems installation and repair technology
- energy systems installation technician
- energy systems installation technology
- energy systems maintenance
- energy systems maintenance technician
- energy systems repair
- energy systems repair technician
- stationary energy sources installer and operator

Exclusion(s)

- energy systems engineering (See 14.4801-Energy systems engineering, general)
- energy systems engineering technician (See 15.1701-Energy systems technology/technician, general)
- energy systems technology (See 15.1701-Energy systems technology/technician, general)

47.0703 Solar energy system installation and repair technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to assemble, install, operate, maintain, and repair solar energy systems. These programs include courses in installing, maintaining and testing various types of equipment.

Illustrative example(s)

- photovoltaic installation
- solar energy system installation
- solar energy system installation and repair technician
- solar energy system installation and repair technology
- solar energy system installation technician
- solar energy system maintenance
- solar energy system maintenance technician
- solar energy system repair
- solar energy system repair technician
- solar panel installation

Exclusion(s)

- solar energy engineering technician (See 15.1703-Solar energy technology/technician)
- solar energy technology (See 15.1703-Solar energy technology/technician)
- solar photovoltaic technician (See 46.0301-Electrical and power transmission installation/installer, general)

47.0704 Wind energy system installation and repair technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to assemble, install, operate, maintain, and repair wind energy systems. These programs include courses in installing, maintaining and testing various types of equipment.

Illustrative example(s)

- wind energy system installation
- wind energy system installation and repair technician
- wind energy system installation and repair technology
- wind energy system maintenance
- wind energy system repair
- wind turbine installation
- wind turbine maintenance
- wind turbine maintenance technician
- wind turbine technician
- wind turbine technology

Exclusion(s)

- wind energy engineering technology (See 15.1704-Wind energy technology/technician)
- wind energy technician (See 15.1704-Wind energy technology/technician)

47.0705 Hydroelectric energy system installation and repair technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to assemble, install, operate, maintain, and repair hydroelectric energy systems. These programs include courses in installing, maintaining and testing various types of equipment.

Illustrative example(s)

- hydroelectric energy system installation
- hydroelectric energy system installation and repair technician
- hydroelectric energy system installation and repair technology
- hydroelectric energy system installation technician

- hydroelectric energy system installation technology
- hydroelectric energy system maintenance technician
- hydroelectric energy system maintenance technology
- hydroelectric energy system repair
- hydroelectric energy system repair technician
- hydroelectric energy system repair technology

Exclusion(s)

- hydroelectric energy technician (See 15.1705-Hydroelectric energy technology/technician)
- hydroelectric power plant operator (See 15.1702-Power plant technology/technician)

47.0706 Geothermal energy system installation and repair technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to assemble, install, operate, maintain, and repair geothermal energy systems. These programs include courses in installing, maintaining and testing various types of equipment.

Illustrative example(s)

- geothermal energy system installation
- geothermal energy system installation and repair technician
- geothermal energy system installation and repair technology
- geothermal energy system installation technician
- geothermal energy system installation technology
- geothermal energy system maintenance
- geothermal energy system maintenance technician
- geothermal energy system repair
- geothermal energy system repair technician
- geothermal energy system repair technology

Exclusion(s)

- geothermal energy engineering technician (See 15.1706-Geothermal energy technology/technician)
- geothermal energy technology (See 15.1706-Geothermal energy technology/technician)

47.0799 Energy systems maintenance and repair technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Energy systems maintenance and repair technologies/technicians.

Illustrative example(s)

- other energy systems installation and repair
- other energy systems maintenance and repair

47.99 Mechanic and repair technologies/technicians, other

This subseries comprises instructional program class 47.9999.

47.9999 Mechanic and repair technologies/technicians, other

This instructional program class comprises any program not listed above that relates to Mechanic and repair technologies/technicians.

Illustrative example(s)

- industrial sewing machine mechanics
- other mechanic and repair technologies/technicians
- sewing-machine mechanic
- vending machine electromechanics

Exclusion(s)

- small engine mechanic (See 47.0606-Small engine mechanics and repair technology/technician)

48. Precision production

This series comprises instructional programs that prepare individuals to apply technical knowledge and skills to create products using techniques of precision craftsmanship or technical illustration.

48.00 Precision production trades, general

This subseries comprises instructional program class 48.0000.

48.0000 Precision production trades, general

This instructional program class comprises any program that generally prepares individuals to apply technical knowledge and skills in creating products using precision crafting and technical illustration.

Illustrative example(s)

- precision production trades

Exclusion(s)

- computer-aided design and drafting technology (See 15.1302-CAD/CADD drafting and/or design technology/technician)
- desktop publishing (See 10.0303-Prepress/desktop publishing and digital imaging design)
- drafting and design technology (See 15.1301-Drafting and design technology/technician, general)
- graphic design for print and web (See 50.0409-Graphic design)
- graphic production and printing (See 10.0301-Graphic communications, general)
- gunsmithing (See 47.0402-Gunsmithing/gunsmith)
- jewellery design (See 50.0713-Jewellery arts)
- watchmaking (See 47.0408-Watchmaking and jewellery making)

48.03 Leatherworking and upholstery

This subseries comprises instructional program classes 48.0303 to 48.0399.

48.0303 Upholstery/upholsterer

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to install springs, filling, padding, covering and finishing on items such as furniture, automobile seats, caskets, mattresses, and bedsprings.

Illustrative example(s)

- auto upholstery
- furniture upholstery
- industrial upholstery
- upholsterer
- upholstering
- upholstery

Exclusion(s)

- furniture making (See 48.0702-Furniture design and manufacturing)
- motor vehicle body repair (See 47.0603-Autobody/collision and repair technology/technician)
- textile manufacturing (See 19.0902-Apparel and textile manufacture)

48.0304 Shoe, boot and leather repair

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to make or repair all types of footwear, including replacement and mending of worn parts; repairing

orthopedic footwear; refinishing and dyeing leather; and repairing other leather goods such as handbags, belts, and luggage.

Illustrative example(s)

- boot repair
- cobbler
- leather goods repair
- leather repair
- leathercraft
- orthopedic footwear repair
- shoe making
- shoe repair

Exclusion(s)

- arts and crafts (See 50.0201-Crafts/craft design, folk art and artisanry)
- orthopedic technician (See 51.0923-Orthopedic technology/technician)
- sewing (See 19.0999-Apparel and textiles, other)

48.0399 Leatherworking and upholstery, other

This instructional program class comprises any program not listed above that relates to Leatherworking and upholstery.

Illustrative example(s)

- other leatherworking and upholstery

Exclusion(s)

- arts and crafts (See 50.0201-Crafts/craft design, folk art and artisanry)
- sewing (See 19.0999-Apparel and textiles, other)

48.05 Precision metal working

This subseries comprises instructional program classes 48.0501 to 48.0599.

48.0501 Machine tool technology/machinist

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to plan, manufacture, assemble, test, and repair parts, mechanisms, machines, and structures in which materials are cast, formed, shaped, moulded, heat treated, cut, twisted, pressed, fused, stamped or worked.

Illustrative example(s)

- general machinist
- industrial machinist
- machine tool fitter
- machine tool operator
- machine tool technology
- machining
- machining technology
- machinist

Exclusion(s)

- engine machinist (See 47.0615-Engine machinist)
- gunsmithing (See 47.0402-Gunsmithing/gunsmith)
- locksmithing (See 47.0403-Locksmithing and safe repair)
- machine shop technology (See 48.0503-Machine shop technology/assistant)
- metal fabricator (See 48.0511-Metal fabricator)

- numerical control operator (See 48.0510-Computer numerically controlled (CNC) machinist technology/CNC machinist)
- tool and die technician (See 48.0507-Tool and die technology/technician)

48.0503 Machine shop technology/assistant

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to fabricate and modify metal parts in support of other manufacturing, repair or design activities, or as an independent business.

Illustrative example(s)

- machine shop
- machine shop assistant
- machine shop technology

Exclusion(s)

- computer numerical control machining (See 48.0510-Computer numerically controlled (CNC) machinist technology/CNC machinist)
- gunsmithing (See 47.0402-Gunsmithing/gunsmith)
- introduction to trades (See 21.0101-Pre-technology education/pre-industrial arts programs)
- locksmithing (See 47.0403-Locksmithing and safe repair)
- machinist (See 48.0501-Machine tool technology/machinist)
- musical instrument repair (See 47.0404-Musical instrument fabrication and repair)
- tool and die technician (See 48.0507-Tool and die technology/technician)

48.0506 Sheet metal technology/sheetworking

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to form, shape, bend and fold extruded metals, including the creation of new products, using hand tools and machines such as cornice brakes, forming rolls, and squaring shears.

Illustrative example(s)

- architectural sheet metal worker
- industrial sheet metal working
- precision sheet metal
- sheet metal
- sheet metal fabrication
- sheet metal technician
- sheet metal work
- sheet metal worker
- tinsmith
- tinsmithing

Exclusion(s)

- aircraft mechanic (See 47.0607-Airframe mechanics and aircraft maintenance technology/technician)
- ironworker (See 48.0509-Ironworking/ironworker)
- metal building assembly (See 46.0411-Metal building assembly/assembler)
- metal fabricator (See 48.0511-Metal fabricator)
- metal pattern maker (See 48.0507-Tool and die technology/technician)
- welder (See 48.0508-Welding technology/welder)

48.0507 Tool and die technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to operate machine tools used in the forming of metal components, as well as the fabrication of special tools, dies, jigs and fixtures used in cutting, working and finishing metal components.

Illustrative example(s)

- die maker
- machinist-mould maker
- metal pattern maker
- molder-founder
- mould maker
- saw filing
- sharpening
- tool and die maker
- tool and die technician
- toolmaker

Exclusion(s)

- computer numerical control machining (See 48.0510-Computer numerically controlled (CNC) machinist technology/CNC machinist)
- machine shop technology (See 48.0503-Machine shop technology/assistant)
- machine tool technology (See 48.0501-Machine tool technology/machinist)
- metal fabricator (See 48.0511-Metal fabricator)

48.0508 Welding technology/welder

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to join or cut metal surfaces. These programs include courses in arc welding, resistance welding, brazing and soldering, cutting, high-energy beam welding and cutting, solid state welding, ferrous and non-ferrous materials, oxidation-reduction reactions, welding metallurgy, welding processes and heat treating, structural design, safety, and applicable codes and standards.

Illustrative example(s)

- arc welding
- high pressure welding
- industrial welder
- industrial welding
- pressure welding
- underwater welding
- welder
- welding
- welding technician
- welding technology

Exclusion(s)

- ironworker (See 48.0509-Ironworking/ironworker)
- plumber (See 46.0503-Plumbing technology/plumber)
- sculpture (See 50.0709-Sculpture)
- sheet metal (See 48.0506-Sheet metal technology/sheetworking)
- welder-fitter (See 48.0511-Metal fabricator)
- welding engineering technology (See 15.0614-Welding engineering technology/technician)

48.0509 Ironworking/ironworker

This instructional program class comprises any program that prepares individuals to make and install structural, ornamental, and reinforcing metal structures and supports. These programs include courses in drafting, technical mathematics, blueprint interpretation, welding, riveting, beam placement, ornamental design, structural reinforcement, crane operation, safety, and applicable codes and standards.

Illustrative example(s)

- ironworker

- ironworker (generalist)
- ironworker (reinforcing)
- ironworker reinforcing rebar
- ironworker structural
- ironworker structural and ornamental
- ironworking
- reinforcing rodworker
- reinforcing steel erector
- structural steel erector

Exclusion(s)

- metal building assembly (See 46.0411-Metal building assembly/assembler)
- metallurgical engineering (See 14.2001-Metallurgical engineering)
- metallurgical technology (See 15.0611-Metallurgical technology/technician)
- sculpture (See 50.0709-Sculpture)
- sheet metal (See 48.0506-Sheet metal technology/sheetworking)
- structural steel and plate fitter (See 48.0511-Metal fabricator)
- welder (See 48.0508-Welding technology/welder)

48.0510 Computer numerically controlled (CNC) machinist technology/CNC machinist

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to operate computer numerically controlled (CNC) machine tools, such as lathes, mills, precision measuring tools, and related attachments and accessories, to perform machining functions, such as cutting, drilling, shaping, and finishing products and component parts. These programs include courses in CNC terminology, setup, programming, operations, and troubleshooting; blueprint reading; machining; lathe and mill operations; technical mathematics; computer literacy; CAD/CAM systems; shop and safety practices; equipment capabilities; and regulations and laws.

Illustrative example(s)

- CNC machining
- CNC machinist
- CNC programmer
- computer numerical control machining
- computerized numerically controlled manufacturing
- numerical control machine tool operation
- numerical control operator

Exclusion(s)

- engine machinist (See 47.0615-Engine machinist)
- machine shop technology (See 48.0503-Machine shop technology/assistant)
- machinist (See 48.0501-Machine tool technology/machinist)
- tool and die technician (See 48.0507-Tool and die technology/technician)

48.0511 Metal fabricator

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to further process ferrous and/or non-ferrous metal plates or shapes, and to manufacture and/or install products as interpreted through technical drawings. These programs include courses in trade tools, shop equipment, reading and interpreting blueprints, material handling, welding, thermal cutting, metallurgy, template pattern development, plate and structural fabrication, destructive and non-destructive testing, inspection, shipment preparation and fabrication installation.

Illustrative example(s)

- metal fabricator
- metal fabricator (fitter)

- metal shaping and assembly
- steel fabricator
- steel fabricator (fitter)
- steel frame assembler
- structural steel and plate fitter
- welder-fitter

Exclusion(s)

- machinist (See 48.0501-Machine tool technology/machinist)
- metal building assembly (See 46.0411-Metal building assembly/assembler)
- reinforcing steel erector (See 48.0509-Ironworking/ironworker)
- sheet metal fabrication (See 48.0506-Sheet metal technology/sheetworking)
- tool and die technician (See 48.0507-Tool and die technology/technician)
- welder (See 48.0508-Welding technology/welder)

48.0599 Precision metal working, other

This instructional program class comprises any program not listed above that relates to Precision metal working.

Illustrative example(s)

- blacksmith
- farrier blacksmith
- other precision metal working

Exclusion(s)

- farrier (See 01.0509-Farrier science)
- goldsmithing (See 50.0714-Metal arts)
- horseshoeing (See 01.0509-Farrier science)
- materials engineering technology (See 15.0699-Industrial production technologies/technicians, other)
- metal building assembly (See 46.0411-Metal building assembly/assembler)
- metallurgical engineering (See 14.2001-Metallurgical engineering)
- sculpture (See 50.0709-Sculpture)

48.07 Woodworking

This subseries comprises instructional program classes 48.0701 to 48.0799.

48.0701 Woodworking, general

This instructional program class comprises any program that generally prepares individuals to apply technical knowledge and skills to lay out and shape stock; assemble wooden articles or subassemblies; mark, bind, saw, carve, and sand wooden products; repair wooden articles, and use a variety of hand and power tools.

Illustrative example(s)

- benchwork and joinery
- industrial woodworking
- joinery
- woodworking
- woodworking technician
- woodworking technology
- workshop joiner
- workshop joinery

Exclusion(s)

- cabinet making (See 48.0703-Cabinetmaking and millwork)
- carpentry (See 46.0201-Carpentry/carpenter)
- carving (See 50.0709-Sculpture)

- furniture making (See 48.0702-Furniture design and manufacturing)
- wood science (See 03.0509-Wood science and wood products/pulp and paper technology/technician)

48.0702 Furniture design and manufacturing

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to prepare and execute furniture design projects; assemble and finish furniture articles or subassemblies; repair furniture; and use a variety of hand and power tools.

Illustrative example(s)

- furniture - milled wood
- furniture and related templates
- furniture design
- furniture making
- furniture repair

Exclusion(s)

- cabinet making (See 48.0703-Cabinetmaking and millwork)
- interior decorating (See 19.0605-Home furnishings and equipment installers)
- manufacturing technology (See 15.0613-Manufacturing engineering technology/technician)
- upholstery (See 48.0303-Upholstery/upholsterer)
- woodworking (See 48.0701-Woodworking, general)

48.0703 Cabinetmaking and millwork

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to set up, operate and repair industrial woodworking machinery, and to use such machinery to design and fabricate wooden components and complete articles.

Illustrative example(s)

- cabinet making
- cabinet making - joinery
- cabinetmaker
- cabinetmaker-joiner
- cabinetmaking
- millwork

Exclusion(s)

- carpentry (See 46.0201-Carpentry/carpenter)
- carving (See 50.0709-Sculpture)
- furniture making (See 48.0702-Furniture design and manufacturing)
- wood products processing (See 03.0509-Wood science and wood products/pulp and paper technology/technician)

48.0704 Wooden boatbuilding technology/technician

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to construct and repair traditional and modern wooden boats. These programs include courses in budgeting, drafting, fairing, lofting, joinery, planking, spars and rigging, and woodworking.

Illustrative example(s)

- boat carpenter
- shipwright
- wooden boat builder
- wooden boat rebuilder
- wooden boat rebuilder/repairer
- wooden boat repair

- wooden boat repairer
- wooden boatbuilding
- wooden boatbuilding technician
- wooden boatbuilding technology

Exclusion(s)

- canoeing instructor (See 31.0601-Outdoor education)
- carpentry (See 46.0201-Carpentry/carpenter)
- fibreglass boat repair (See 47.0616-Marine maintenance/fitter and ship repair technology/technician)
- ship repair (See 47.0616-Marine maintenance/fitter and ship repair technology/technician)
- woodworking (See 48.0701-Woodworking, general)

48.0799 Woodworking, other

This instructional program class comprises any program not listed above that relates to Woodworking.

Illustrative example(s)

- other woodworking

Exclusion(s)

- wood products processing (See 03.0509-Wood science and wood products/pulp and paper technology/technician)
- woodworking (See 48.0701-Woodworking, general)

48.08 Boilermaking/boilermaker

This subseries comprises instructional program class 48.0801.

48.0801 Boilermaking/boilermaker

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to fabricate and repair steam boiler components. These programs include courses in principles of steam power, material selection, welding, riveting, sealing materials, pressure testing, pipefitting, and applicable codes and standards.

Illustrative example(s)

- boilermaker
- boilermaking
- construction boilermaker

Exclusion(s)

- heating, ventilation, air conditioning and refrigeration mechanic (See 47.0201-Heating, air conditioning, ventilation and refrigeration maintenance technology/technician)
- heating, ventilation, air conditioning and refrigeration technician (See 15.0501-Heating, ventilation, air conditioning and refrigeration engineering technology/technician)
- pipefitting (See 46.0502-Pipefitting/pipefitter and sprinkler fitter)
- plumbing (See 46.0503-Plumbing technology/plumber)
- welding (See 48.0508-Welding technology/welder)

48.99 Precision production, other

This subseries comprises instructional program class 48.9999.

48.9999 Precision production, other

This instructional program class comprises any program not listed above that relates to Precision production.

Illustrative example(s)

- diamond cutting
- diamond cutting and polishing
- diamond polishing
- lathe operator
- other precision production

49. Transportation and materials moving

This series comprises instructional programs that prepare individuals to apply technical knowledge and skills to perform tasks and services that facilitate the movement of people or materials.

49.01 Air transportation

This subseries comprises instructional program classes 49.0101 to 49.0199.

49.0101 Aeronautics/aviation/aerospace science and technology, general

This instructional program class comprises any program that focuses on the general study of aviation and the aviation industry, including in-flight and ground support operations. These programs include courses in the technical, business, and general aspects of air transportation systems.

Illustrative example(s)

- aeronautics
- air transportation
- aviation
- aviation industry

Exclusion(s)

- aeronautical engineering (See 14.0201-Aerospace, aeronautical and astronautical/space engineering, general)
- aeronautical engineering technology (See 15.0801-Aeronautical/aerospace engineering technology/technician)
- aircraft mechanic (See 47.0607-Airframe mechanics and aircraft maintenance technology/technician)
- aviation law (graduate level) (See 22.0223-Transportation law (LLM, LLD, JSD/SJD))
- avionics technician (See 47.0609-Avionics maintenance technology/technician)

49.0102 Airline/commercial/professional pilot and flight crew

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to the flying and/or navigation of commercial passenger and cargo, agricultural, public service, corporate and rescue, fixed or rotary aircraft. These programs include courses in principles of aircraft design and performance; aircraft flight systems and controls; flight crew operations and procedures; radio communications; navigation procedures and systems; airways safety and traffic regulations; and governmental rules and regulations pertaining to piloting aircraft. Programs may qualify individuals to sit for commercial and airline aircrew examinations.

Illustrative example(s)

- air navigator
- airline pilot
- airplane pilot
- bush pilot
- commercial pilot
- flight engineer
- helicopter pilot
- multi-engine pilot
- professional pilot

- seaplane flying

Exclusion(s)

- aircraft mechanic (See 47.0607-Airframe mechanics and aircraft maintenance technology/technician)
- aircraft pilot (private) (not for credit) (See 36.0202-Aircraft pilot (private) (not for credit))
- aviation flight management (See 49.0104-Aviation/airway management and operations)
- flight attendant (See 49.0106-Airline flight attendant)
- flight instructor (See 49.0108-Flight instructor)
- helicopter pilot (private) (not for credit) (See 36.0204-Helicopter pilot (private) (not for credit))
- marine navigation (See 49.0309-Nautical science/merchant marine officer)

49.0104 Aviation/airway management and operations

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to the management of aviation industry operations and services. These programs include courses in airport operations, ground traffic direction, ground support and flightline operations, passenger and cargo operations, flight safety and security operations, aviation industry regulation, and related business aspects of managing aviation enterprises.

Illustrative example(s)

- airline and flight operations
- airport management
- airport operations
- aviation flight management
- aviation management
- aviation operations
- commercial aviation management
- ground support and flightline operations

Exclusion(s)

- airplane pilot (See 49.0102-Airline/commercial/professional pilot and flight crew)
- logistics and material management (See 52.0203-Logistics, materials, and supply chain management)
- tourism and travel services management (See 52.0903-Tourism and travel services management)
- traffic technician (See 52.0410-Traffic, customs and transportation clerk/technician)
- transportation management (See 52.0209-Transportation/mobility management)

49.0105 Air traffic controller

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to air traffic management and control. These programs include courses in flight control; the use of radar and electronic scanning devices; plotting of flights; radio communication; interpretation of weather conditions affecting flights; flight instrumentation used by pilots; and maintenance of flight control centre or control tower log books.

Illustrative example(s)

- air controller
- air traffic control
- air traffic controller

Exclusion(s)

- airline and flight operations (See 49.0104-Aviation/airway management and operations)
- traffic control - flagging (See 49.0207-Flagging and traffic control)
- traffic technician (See 52.0410-Traffic, customs and transportation clerk/technician)

49.0106 Airline flight attendant

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to the performance of a variety of personal services conducive to the safety and comfort of airline passengers during flight, including verifying tickets, explaining the use of safety equipment, providing passenger services, and responding to in-flight emergencies.

Illustrative example(s)

- air host/hostess
- flight attendant
- flight steward/stewardess

Exclusion(s)

- food and beverage service (See 12.0507-Food service, waiter/waitress and dining room management/manager)

49.0108 Flight instructor

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to the training of pilots or navigators to fly and/or navigate commercial passenger and cargo, agricultural, public service, corporate and rescue aircraft, fixed or rotary wing. These programs include courses in principles of aircraft design and performance; aircraft flight systems and controls; flight crew operations and procedures; radio communications and navigation procedures and systems; airways safety and traffic regulations; and governmental rules and regulations pertaining to piloting aircraft. Programs may qualify individuals to administer commercial aircrew examinations.

Illustrative example(s)

- flight instructor
- flying instructor
- pilot instructor

Exclusion(s)

- airplane pilot (See 49.0102-Airline/commercial/professional pilot and flight crew)

49.0109 Remote aircraft pilot

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to fly unmanned aircraft systems (UAS) for commercial, professional or personal use, and qualifies individuals to sit for the US Federal Aviation Administration (FAA) or Transport Canada (TC) Remote Pilot Certificate with small unmanned aircraft systems (sUAS) rating knowledge examination. These programs include courses in principles of unmanned aircraft system design and performance; aircraft flight systems and controls; airway safety and traffic regulations; and governmental rules and regulations pertaining to piloting unmanned aircraft.

Illustrative example(s)

- drone pilot certificate - advanced
- drone pilot certificate - basic
- professional remotely piloted aircraft systems
- remote aircraft pilot
- remotely piloted aerial systems commercial operations
- remotely piloted aircraft systems (RPAS)
- small remotely piloted aircraft (sRPA)
- small remotely piloted aircraft systems (sRPAS)
- small unmanned aerial vehicle (small UAV) pilot
- small unmanned aircraft system (small UAS) pilot

49.0199 Air transportation, other

This instructional program class comprises any program not listed above that relates to Air transportation.

Illustrative example(s)

- airline ticket agent
- other air transportation

Exclusion(s)

- call centre service representative (See 52.0411-Customer service support/call centre/teleservice operation)
- tourism and travel services management (See 52.0903-Tourism and travel services management)

49.02 Ground transportation

This subseries comprises instructional program classes 49.0202 to 49.0299.

49.0202 Construction/heavy equipment/earthmoving equipment operation

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to operate and maintain a variety of heavy equipment, such as crawler tractors, motor graders and scrapers, shovels, rigging devices, hoists, and jacks. These programs include courses in digging, ditching, sloping, stripping, grading, and backfilling, clearing and excavating.

Illustrative example(s)

- backhoe operator
- construction equipment operation
- earthmoving equipment operation
- grader operator
- heavy construction equipment operator
- heavy equipment operation
- heavy equipment operation - forestry
- heavy equipment operation - surface mining
- heavy machinery operator
- heavy-duty equipment operator

Exclusion(s)

- agricultural power machinery operation (See 01.0204-Agricultural power machinery operation)
- crane operator (See 49.0206-Mobile crane operation/operator)
- heavy equipment mechanic (See 47.0302-Heavy equipment maintenance technology/technician)
- heavy truck driving (See 49.0205-Truck and bus driver/commercial vehicle operator and instructor)
- heavy vehicle mechanic (See 47.0613-Medium/heavy vehicle and truck technology/technician)
- logging machinery operation (See 03.0511-Forest technology/technician)
- surface mining (See 15.0901-Mining technology/technician)

49.0205 Truck and bus driver/commercial vehicle operator and instructor

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to drive trucks and buses, delivery vehicles, for-hire vehicles and other commercial vehicles, or to instruct commercial vehicle operators. These programs include courses in operating gas, diesel, or electrically-powered vehicles; loading and unloading cargo or passengers; reporting delays or accidents on the road; verifying load against shipping papers; arranging transportation for personnel; and keeping records of receipts and fares.

Illustrative example(s)

- bus driver
- bus driving instructor
- commercial driver
- heavy duty truck driver

- school bus driver
- taxi driver
- tractor trailer operation
- transport truck driver
- truck driving
- truck driving instructor

Exclusion(s)

- agricultural power machinery operation (See 01.0204-Agricultural power machinery operation)
- crane operator (See 49.0206-Mobile crane operation/operator)
- driving instructor (See 13.1304-Driver and safety teacher education)
- heavy equipment operation (See 49.0202-Construction/heavy equipment/earthmoving equipment operation)

49.0206 Mobile crane operation/operator

This instructional program class comprises any program that prepares individuals to hoist and swing loads via complex rotating machinery that is driver operated. These programs include courses in crane operational characteristics, load and capacity chart usage, emergency control skills, safety, specific types of mobile cranes and loading devices, applicable codes and standards, and applications to particular types of jobs and loads.

Illustrative example(s)

- boom truck operator
- crane and hoist operator
- crane and hoisting equipment operator
- crane operating
- crane operator
- hoist operator
- hoisting engineer
- hoistman/hoistwoman
- mobile crane operation
- mobile crane operator

Exclusion(s)

- heavy equipment operation (See 49.0202-Construction/heavy equipment/earthmoving equipment operation)
- heavy truck driving (See 49.0205-Truck and bus driver/commercial vehicle operator and instructor)

49.0207 Flagging and traffic control

This instructional program class comprises any program that prepares individuals to control the movement of traffic through construction and maintenance zones and to protect the safety of work crews, drivers, and pedestrians. These programs include courses in flagging duties and responsibilities, the traffic control zone, flagging signals, pavement markers, freeway flagging, utility flagging, emergency response flagging, and night traffic control.

Illustrative example(s)

- flagging
- flagging and traffic control
- flagman/flagwoman
- flags person
- flagsman/flagswoman
- traffic control - flagging

Exclusion(s)

- air traffic control (See 49.0105-Air traffic controller)

- rail traffic controller (See 49.0208-Railroad and railway transportation)
- traffic engineering (See 14.0804-Transportation and highway engineering)
- traffic technician (See 52.0410-Traffic, customs and transportation clerk/technician)

49.0208 Railroad and railway transportation

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to the operation of railroads and other aspects of the railway industry, including railroad and railyard service. These programs include courses in railway culture, operating skills, General Code of Operation rules, conductor service, signal systems, switching, transportation of hazardous materials, safety, and railway telecommunications systems.

Illustrative example(s)

- brakeman/brakewoman
- locomotive engineer
- rail traffic controller
- rail yardmaster
- railroad conductor
- railway conductor
- railway dispatcher
- railway operations
- train conductor
- train dispatcher

Exclusion(s)

- alignment and brakes technician (See 47.0604-Automobile/automotive mechanics technology/technician)
- engineering (See 14.0101-Engineering, general)
- traffic control - flagging (See 49.0207-Flagging and traffic control)
- traffic technician (See 52.0410-Traffic, customs and transportation clerk/technician)
- transportation engineering (See 14.0804-Transportation and highway engineering)

49.0209 Forklift operation/operator

This instructional program class comprises any program that prepares individuals to operate forklifts in a variety of work environments. These programs include courses in accident prevention, forklift operation, materials handling, and worksite safety.

Illustrative example(s)

- fork lift operation
- fork lift operator
- forklift driver
- forklift operation
- forklift operator
- forklift truck operator
- lift truck driver
- lift truck operation
- lift truck operator

Exclusion(s)

- forklift mechanic (See 47.0699-Vehicle maintenance and repair technologies/technicians, other)

49.0299 Ground transportation, other

This instructional program class comprises any program not listed above that relates to Ground transportation.

Illustrative example(s)

- other ground transportation

Exclusion(s)

- driving instructor (See 13.1304-Driver and safety teacher education)
- fork lift operator (See 49.0209-Forklift operation/operator)
- traffic engineering (See 14.0804-Transportation and highway engineering)
- traffic technician (See 52.0410-Traffic, customs and transportation clerk/technician)
- transportation management (See 52.0209-Transportation/mobility management)

49.03 Marine transportation

This subseries comprises instructional program classes 49.0303 to 49.0399.

49.0303 Commercial fishing

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to function as commercial fishermen, fishing operations supervisors or in related fishing industry operations. These programs include courses in fishing vessel operation; fishing equipment operation and maintenance; equipment repair; catch identification, sorting, and storage; safety procedures; record keeping; and applicable legal regulations.

Illustrative example(s)

- commercial fishing
- fisherman/fisherwoman
- fishing captain
- fishing master

Exclusion(s)

- aquaculture (See 01.0303-Aquaculture)
- fisheries science (See 03.0301-Fishing and fisheries sciences and management)
- marine resources management (See 03.0205-Water, wetlands and marine resources management)

49.0304 Diver, professional and instructor

This instructional program class comprises any program that prepares individuals to apply technical knowledge and skills to function as professional deep-water or scuba divers, diving instructors, or diving support personnel. These programs include courses in the use of diving equipment and related specialized gear; diving safety procedures; operation and maintenance of underwater life-support systems; underwater communication systems; decompression systems; underwater salvage; exploration, rescue, and photography; and installation and fitting of underwater mechanical systems and their maintenance, repair or demolition.

Illustrative example(s)

- commercial diving
- deep-sea diving
- diving instructor
- offshore diver
- professional diver
- professional diving
- scuba diving
- scuba diving instructor

Exclusion(s)

- athletic coach (See 31.0501-Sports, kinesiology, and physical education/physical fitness, general)
- fitness instructor (See 31.0507-Physical fitness technician)

49.0309 Nautical science/merchant marine officer

This instructional program class comprises any program that prepares individuals to serve as captains, executive officers, engineers and ranking mates on commercially licensed inland, coastal and ocean-going vessels. These programs include courses in maritime traditions and law; maritime policy; economics and management of commercial marine operations; basic naval architecture and engineering; shipboard power systems engineering; crew supervision; and administrative procedures.

Illustrative example(s)

- deck officer
- marine navigation
- master mariner
- merchant marine
- nautical science
- sea captain
- ship captain
- ship pilot
- tugboat master
- watchkeeping mate

Exclusion(s)

- fishing captain (See 49.0303-Commercial fishing)
- marine biology (See 26.1302-Marine biology and biological oceanography)
- marine engineering (See 14.2201-Naval architecture and marine engineering)
- marine engineering technology (See 15.0806-Marine engineering technology/technician)
- marine sciences (See 30.3201-Marine sciences)
- marine service technician (See 47.0616-Marine maintenance/fitter and ship repair technology/technician)
- maritime studies (See 30.2901-Maritime studies)
- merchant marine engineer (See 15.0806-Marine engineering technology/technician)
- oceanography (See 40.0607-Oceanography, chemical and physical)
- personal watercraft operator (not for credit) (See 36.0206-Personal watercraft/boating education (not for credit))

49.0399 Marine transportation, other

This instructional program class comprises any program not listed above that relates to Marine transportation.

Illustrative example(s)

- lighthouse keeper
- longshoreman/longshorewoman
- other marine transportation

Exclusion(s)

- marine diesel mechanic (See 47.0605-Diesel mechanics technology/technician)
- marine service technician (See 47.0616-Marine maintenance/fitter and ship repair technology/technician)

49.99 Transportation and materials moving, other

This subseries comprises instructional program class 49.9999.

49.9999 Transportation and materials moving, other

This instructional program class comprises any program not listed above that relates to Transportation and materials moving.

Illustrative example(s)

- other transportation and materials moving

Exclusion(s)

- train conductor (See 49.0208-Railroad and railway transportation)
- transportation clerk (See 52.0410-Traffic, customs and transportation clerk/technician)
- transportation management (See 52.0209-Transportation/mobility management)
- transportation planning (See 44.0403-Public transportation and infrastructure planning/studies)

50. Visual and performing arts

This series comprises instructional programs that focus on the creation and interpretation of works and performances that use auditory, kinesthetic, and visual phenomena to express ideas and emotions in various forms, subject to aesthetic criteria.

50.01 Visual, digital and performing arts, general

This subseries comprises instructional program classes 50.0101 and 50.0102.

50.0101 Visual and performing arts, general

This instructional program class comprises any general, undifferentiated program that focuses on the visual and performing arts and that prepares individuals in any of the visual artistic media or performing disciplines.

Illustrative example(s)

- performing arts
- visual and creative arts
- visual and performing arts
- visual arts

Exclusion(s)

- art therapy (See 51.2301-Art therapy/therapist)
- arts and crafts (See 50.0201-Crafts/craft design, folk art and artisanry)
- digital arts (See 50.0102-Digital arts, general)

50.0102 Digital arts, general

This instructional program class comprises any general, undifferentiated program that focuses on the use of computerized digital images as the primary medium of expression in the visual and performing arts, and that may prepare individuals for a wide variety of careers using new media, including graphic design, digital animation, motion graphics, 3D visualization, game and interactive media design, music and sound design, video production, web design, photography, and other fields.

Illustrative example(s)

- digital art
- digital arts

Exclusion(s)

- commercial photography (See 50.0406-Commercial photography)
- desktop publishing (See 10.0303-Prepress/desktop publishing and digital imaging design)
- digital communication and multimedia (See 09.0702-Digital communication and media/multimedia)
- visual and creative arts (See 50.0101-Visual and performing arts, general)

50.02 Crafts/craft design, folk art and artisanry

This subseries comprises instructional program class 50.0201.

50.0201 Crafts/craft design, folk art and artisanry

This instructional program class comprises any program that focuses on the aesthetics, techniques, and creative processes for designing and fashioning objects in one or more of the handcraft or folk art traditions, and that prepares individuals to create in any of these media.

Illustrative example(s)

- arts and crafts
- crafts
- folk art and artisanry
- handicrafts

- traditional arts and crafts

Exclusion(s)

- art (See 36.0110-Art (not for credit))
- ceramic arts (See 50.0711-Ceramic arts and ceramics)
- fabric design (See 19.0902-Apparel and textile manufacture)
- handicrafts and model-making (See 36.0102-Handicrafts and model-making (not for credit))
- silversmithing (See 50.0714-Metal arts)
- visual and creative arts (See 50.0101-Visual and performing arts, general)
- weaving (See 50.0712-Fibre, textile and weaving arts)

50.03 Dance

This subseries comprises instructional program classes 50.0301 to 50.0399.

50.0301 Dance, general

This instructional program class comprises any general program that prepares individuals to express ideas, feelings, and/or inner visions through the performance of one or more of the dance disciplines, including but not limited to ballet, modern, jazz, ethnic, and folk dance, and that focuses on the study and analysis of dance as a cultural phenomenon. These programs include courses in technique, choreography, Laban notation, dance history and criticism, and dance production.

Illustrative example(s)

- choreography, dance
- classical dance
- contemporary dance
- dance
- dance movement studies
- dancing
- modern dance

Exclusion(s)

- ballet (See 50.0302-Ballet)
- dance teacher (See 13.1324-Drama and dance teacher education)
- dance therapy (See 51.2302-Dance therapy/therapist)
- dancing (not for credit) (See 36.0114-Dancing (not for credit))
- visual and performing arts (See 50.0101-Visual and performing arts, general)

50.0302 Ballet

This instructional program class comprises any program that prepares individuals to express ideals and feelings through interpretation of classical dance choreography. These programs include courses in ballet exercise, solo and ensemble dance, history of ballet, ballet choreography, Laban notation, ballet technique, and interpretations of specific styles and schools.

Illustrative example(s)

- ballet
- ballet dancer
- ballet dancing
- classical ballet

Exclusion(s)

- ballet teacher (See 13.1324-Drama and dance teacher education)
- classical dance (See 50.0301-Dance, general)
- dance therapy (See 51.2302-Dance therapy/therapist)
- dancing (not for credit) (See 36.0114-Dancing (not for credit))

50.0399 Dance, other

This instructional program class comprises any program not listed above that relates to Dance.

Illustrative example(s)

- other dance

Exclusion(s)

- ballet (See 50.0302-Ballet)
- dance (See 50.0301-Dance, general)
- dance teacher (See 13.1324-Drama and dance teacher education)
- dance therapy (See 51.2302-Dance therapy/therapist)
- dancing (not for credit) (See 36.0114-Dancing (not for credit))

50.04 Design and applied arts

This subseries comprises instructional program classes 50.0401 to 50.0499.

50.0401 Design and visual communications, general

This instructional program class comprises any program in the applied visual arts that focuses on the general principles and techniques for effectively communicating ideas and information, and packaging products, in digital and other formats to business and consumer audiences, and that prepares individuals in any of the applied art media.

Illustrative example(s)

- applied arts
- communication design
- creative design
- design arts
- visual communications

Exclusion(s)

- art studies (See 50.0701-Art/art studies, general)
- audiovisual technology (See 10.0299-Audiovisual communications technologies/technicians, other)
- commercial art (See 50.0402-Commercial and advertising art)
- desktop publishing (See 10.0303-Prepress/desktop publishing and digital imaging design)
- drawing (See 50.0705-Drawing)
- graphic communications (See 10.0301-Graphic communications, general)
- graphic design (See 50.0409-Graphic design)
- industrial design (See 50.0404-Industrial and product design)
- web page design (See 11.0801-Web page, digital/multimedia and information resources design)

50.0402 Commercial and advertising art

This instructional program class comprises any program in the applied visual arts that prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences via illustrations and other forms of digital or printed media. These programs include courses in concept design, layout, paste-up, and techniques such as engraving, etching, silkscreen, lithography, offset, drawing and cartooning, painting, collage, and computer graphics.

Illustrative example(s)

- advertising art
- advertising design
- commercial art
- commercial art painting
- commercial artist

- creative advertising design
- sign painting

Exclusion(s)

- advertising (See 09.0903-Advertising)
- commercial photography (See 50.0406-Commercial photography)
- graphic communications (See 10.0301-Graphic communications, general)
- illustration (See 50.0410-Illustration)

50.0404 Industrial and product design

This instructional program class comprises any program in the applied visual arts that prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences via the creation of effective forms, shapes, and packaging for manufactured products. These programs include courses in designing in a wide variety of plastic and digital media, prototype construction, design development and refinement, principles of cost saving, and product structure and performance criteria relevant to aesthetic design parameters.

Illustrative example(s)

- industrial design

Exclusion(s)

- design arts (See 50.0401-Design and visual communications, general)
- industrial arts teacher (See 13.1309-Technology teacher education/industrial arts teacher education)
- industrial drafting (See 15.1301-Drafting and design technology/technician, general)
- industrial engineering (See 14.3501-Industrial engineering)
- industrial technology (See 15.0612-Industrial technology/technician)

50.0406 Commercial photography

This instructional program class comprises any program in the applied visual arts that prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences, and recording events and people, via digital, film, still and video photography. These programs include courses in specialized camera and equipment operation and maintenance, applications to commercial and industrial needs, and photography business operations.

Illustrative example(s)

- advertising photography
- applied photography
- commercial and digital photography
- commercial photography

Exclusion(s)

- commercial art (See 50.0402-Commercial and advertising art)
- creative photography (See 50.0605-Photography)
- digital arts (See 50.0102-Digital arts, general)
- photofinishing (See 10.0201-Photographic and film/video technology/technician)
- photojournalism (See 09.0404-Photojournalism)

50.0407 Fashion/apparel design

This instructional program class comprises any program that prepares individuals to apply artistic principles and techniques to the professional design of commercial fashions, apparel, and accessories, and the management of fashion development projects. These programs include courses in apparel design; accessory design; the design of men's, women's, and children's wear; flat pattern design; computer-assisted design and manufacturing; concept planning; designing in specific materials; labour and cost analysis; history of fashion; fabric art and printing; and the principles of management and operations in the fashion industry.

Illustrative example(s)

- apparel design
- clothing design
- creative fashion design
- fashion design
- fashion design and technology
- fashion designer
- fashion patternmaker
- garment design
- haute couture

Exclusion(s)

- apparel and textile marketing management (See 19.0905-Apparel and textile marketing management)
- clothing and textiles (See 19.0901-Apparel and textiles, general)
- custom tailoring and alterations (See 19.0999-Apparel and textiles, other)
- fabric design (See 19.0902-Apparel and textile manufacture)
- fashion consultant (See 19.0906-Fashion and fabric consultant)
- textile arts (See 50.0712-Fibre, textile and weaving arts)

50.0408 Interior design

This instructional program class comprises any program in the applied visual arts that prepares individuals to apply artistic principles and techniques to the professional planning, designing, equipping, and furnishing residential and commercial interior spaces. These programs include courses in computer applications drafting and graphic techniques; principles of interior lighting, acoustics, systems integration, and colour coordination; furniture and furnishings; textiles and their finishing; the history of interior design and period styles; basic structural design; building codes and inspection regulations; and applications to office, hotel, factory, restaurant and housing design.

Illustrative example(s)

- interior design

Exclusion(s)

- environmental design (See 04.0401-Environmental design/architecture, general)
- interior architecture (See 04.0501-Interior architecture)
- interior decorating (See 19.0605-Home furnishings and equipment installers)

50.0409 Graphic design

This instructional program class comprises any program that prepares individuals to apply artistic and computer techniques to the interpretation of technical and commercial concepts. These programs include courses in computer-assisted art and design, printmaking, concepts sketching, technical drawing, color theory, imaging, studio technique, still and life modelling, multimedia applications, communication skills and commercial art business operations.

Illustrative example(s)

- creative graphics
- graphic arts
- graphic design
- graphic design technology

Exclusion(s)

- commercial art (See 50.0402-Commercial and advertising art)
- computer graphics (See 11.0803-Computer graphics)
- computer-aided design and drafting technology (See 15.1302-CAD/CADD drafting and/or design technology/technician)

- desktop publishing (See 10.0303-Prepress/desktop publishing and digital imaging design)
- graphic communications (See 10.0301-Graphic communications, general)
- web page design (See 11.0801-Web page, digital/multimedia and information resources design)

50.0410 Illustration

This instructional program class comprises any program that prepares individuals to use artistic techniques to develop and execute interpretations of the concepts of authors and designers to specifications. These programs include courses in book illustration, fashion illustration, map illustration, rendering, exhibit preparation, textual layout, cartooning, and the use of various artistic techniques as requested by clients.

Illustrative example(s)

- graphic illustration
- illustration
- technical illustration

Exclusion(s)

- computer animation (See 10.0304-Animation, interactive technology, video graphics and special effects)
- computer-aided design and drafting technology (See 15.1302-CAD/CADD drafting and/or design technology/technician)
- drawing (See 50.0705-Drawing)
- medical illustration (See 51.2703-Medical illustration/medical illustrator)

50.0411 Game and interactive media design

This instructional program class comprises any program that focuses on the design, development, and programming of interactive media entertainment, including computer and video games, virtual environments, Internet applications, and other interactive media. These programs include courses in theory of games, turn-based games, real-time games, visual and interactive design, story development, animation, simulation, and programming.

Illustrative example(s)

- 3D modelling for animation and games
- computer game design
- computer game design and development
- game and interactive media design
- game design
- game development - 3D modelling and motion capture
- game level design
- video game 3D modelling
- video game design
- video game design and development

Exclusion(s)

- computer animation (See 10.0304-Animation, interactive technology, video graphics and special effects)
- computer game development and programming (See 11.0204-Computer game programming)
- game design and programming (See 11.0204-Computer game programming)
- interactive multimedia and design (See 11.0801-Web page, digital/multimedia and information resources design)
- modeling, virtual environments and simulation (See 11.0804-Modelling, virtual environments and simulation)

50.0499 Design and applied arts, other

This instructional program class comprises any program not listed above that relates to Design and applied arts.

Illustrative example(s)

- human-centred design

- other design and applied arts
- user-centred design

Exclusion(s)

- computer-aided design and drafting technology (See 15.1302-CAD/CADD drafting and/or design technology/technician)
- environmental design (See 04.0401-Environmental design/architecture, general)
- floral design (See 01.0608-Floriculture/floristry operations and management)
- human-centred technology design (See 11.0105-Human-centred technology design)
- industrial drafting (See 15.1301-Drafting and design technology/technician, general)
- theatrical design (See 50.0502-Technical theatre/theatre design and technology)
- user experience design (See 11.0105-Human-centred technology design)

50.05 Drama/theatre arts and stagecraft

This subseries comprises instructional program classes 50.0501 to 50.0599.

50.0501 Drama and dramatics/theatre arts, general

This instructional program class comprises any program that focuses on the general study of dramatic works and their performance. These programs include courses in major works of dramatic literature, dramatic styles and types, and the principles of organizing and producing full live or filmed productions.

Illustrative example(s)

- drama
- drama and theatre
- dramatic arts
- theatre
- theatre arts
- theatre arts studies
- theatre studies

Exclusion(s)

- dance (See 50.0301-Dance, general)
- drama and dance teacher education (See 13.1324-Drama and dance teacher education)
- drama therapy (See 51.2315-Drama therapy/therapist)
- theatre (not for credit) (See 36.0117-Theatre (not for credit))
- visual and performing arts (See 50.0101-Visual and performing arts, general)

50.0502 Technical theatre/theatre design and technology

This instructional program class comprises any program that prepares individuals to apply artistic, technical and dramatic principles and techniques to the communication of dramatic information, ideas, moods, and feelings through technical theatre methods. These programs include courses in set design, lighting design, sound effects, theatre acoustics, scene painting, property management, costume design, technical direction and production and the use of related computer applications.

Illustrative example(s)

- scene painting
- scenery and lighting
- set design
- set dresser
- stagecraft
- technical scenography
- technical theatre
- theatre technical production
- theatre technician

- theatrical design

Exclusion(s)

- costume design (See 50.0510-Costume design)
- creative fashion design (See 50.0407-Fashion/apparel design)
- home staging (See 19.0605-Home furnishings and equipment installers)
- interior decorating (See 19.0605-Home furnishings and equipment installers)
- makeup (See 12.0406-Makeup artist/specialist)
- technical drawing (See 15.1301-Drafting and design technology/technician, general)
- theatre (not for credit) (See 36.0117-Theatre (not for credit))

50.0504 Playwriting and screenwriting

This instructional program class comprises any program that focuses on the principles and techniques for communicating dramatic information, ideas, moods, and feelings through the composition of creative written works for the theatre, film, and/or television. These programs include courses in creative writing craft, scene writing, script development, stage and/or camera instructions, line and moment analysis, script reading, script editing, and the creation of full productions.

Illustrative example(s)

- dramatic writing
- playwriting
- screenwriting
- script writing
- writing for screen and television

Exclusion(s)

- comic scriptwriting (See 50.0511-Comedy writing and performance)
- English creative writing (See 23.1302-English creative writing)
- English technical and professional writing (See 23.1303-English professional, technical, business, and scientific writing)
- English writing (See 23.1301-English writing, general)
- French creative writing (See 55.1302-French creative writing^{CAN})
- French writing (See 55.1301-French writing, general^{CAN})

50.0505 Theatre literature, history and criticism

This instructional program class comprises any program that focuses on the study of the history, literature, theory, and analysis of written plays, theatrical productions, and theatre methods and organization. These programs include courses in historical method; critical theory; literary analysis; the study of themes and archetypes in dramatic literature; the history of acting, directing, and technical theatre; and the study of specific historical and cultural styles and traditions.

Illustrative example(s)

- theatre criticism
- theatre history
- theatre history and analysis
- theatre literature
- theatre literature, history and criticism

Exclusion(s)

- comparative literature (See 16.0104-Comparative literature)
- English literature (See 23.1401-English literature, general)
- film history, theory, and criticism (See 50.0601-Film/cinema/video studies)
- French general literature (See 55.1401-French literature, general^{CAN})
- history (See 54.0101-History, general)

50.0506 Acting

This instructional program class comprises any program that prepares individuals to communicate dramatic information, ideas, moods, and feelings through the achievement of naturalistic and believable behaviour in imaginary circumstances. These programs include courses in voice and acting speech, stage dialects, movement, improvisation, acting styles, theatre history, script interpretation, and actor coaching.

Illustrative example(s)

- acting
- dramatic actor/actress
- stage acting
- theatre performance

Exclusion(s)

- comedy performance (See 50.0511-Comedy writing and performance)
- drama and dance teacher education (See 13.1324-Drama and dance teacher education)
- English speech and rhetorical studies (See 23.1304-English rhetoric and composition)
- French rhetoric and composition (See 55.1304-French rhetoric and composition^{CAN})

50.0507 Directing and theatrical production

This instructional program class comprises any program that prepares individuals to manage the planning, design, preparation, and production of plays and other theatrical entertainment programs. These programs include courses in theatrical design, program management, dramatic production, rehearsal management, personnel management and casting, actor coaching, directing concepts and techniques, theatre history, scene work, script interpretation, business management, marketing, public relations, and communications skills.

Illustrative example(s)

- direction of plays
- stage direction
- theatre directing
- theatre production
- theatrical directing
- theatrical production

Exclusion(s)

- artist management (See 50.1001-Arts, entertainment, and media management, general)
- film directing (See 50.0602-Cinematography and film/video production)
- theatre arts management (See 50.1004-Theatre/theatre arts management)

50.0509 Musical theatre

This instructional program class comprises any program that focuses on the principles and techniques for integrating theatre, music, and dance into a unified production. These programs include courses in acting, dance, voice, technical theatre, musical genres, piano, and history of musical theatre.

Illustrative example(s)

- music theatre
- musical theatre
- musical theatre performance

Exclusion(s)

- dance and theatre (See 50.0512-Theatre and dance)
- music (See 50.0901-Music, general)
- music performance (See 50.0903-Music performance, general)
- music production (See 50.0999-Music, other)

- musical orchestration (See 50.0904-Music theory and composition)
- orchestral conducting (See 50.0906-Conducting)

50.0510 Costume design

This instructional program class comprises any program that prepares individuals to design and select costumes for characters in theatre and the performing arts and to serve as part of a production team. These programs include courses in costume design, script analysis, theory and criticism, period styles, history of costume, stage makeup, rendering, and costume construction.

Illustrative example(s)

- costume design
- costume studies
- historic costumes
- museum costumes

Exclusion(s)

- museum technology (See 30.1401-Museology/museum studies)
- technical theatre (See 50.0502-Technical theatre/theatre design and technology)

50.0511 Comedy writing and performance

This instructional program class comprises any program that focuses on the historical, cultural, and theoretical dimensions of comedy as an art form, and the writing, performance, and production of comedy. These programs include courses in comedic storytelling, comedy production, comedy writing, history of comedy, improvisation, and sketch writing.

Illustrative example(s)

- comedic arts
- comedy performance
- comedy studies
- comedy writing
- comedy writing and performance
- comic script writing
- comic scriptwriting
- humour and comedy writing
- television comedy screenwriting
- writing television comedy

Exclusion(s)

- acting (See 50.0506-Acting)
- English creative writing (See 23.1302-English creative writing)
- French creative writing (See 55.1302-French creative writing^{CAN})
- script writing (See 50.0504-Playwriting and screenwriting)

50.0512 Theatre and dance

This instructional program class comprises any program that focuses on integrating the studies of dance and theatre arts to provide perspectives in all facets of production, performance, and critical engagement. These programs include courses in acting, aesthetics, choreography, costume design, criticism, dance, improvisation, music analysis, playwriting, theatre performance history, scene design, stage lighting, and technical theatre.

Illustrative example(s)

- dance and theatre
- theatre and dance

Exclusion(s)

- dance (See 50.0301-Dance, general)
- musical theatre (See 50.0509-Musical theatre)
- theatre arts (See 50.0501-Drama and dramatics/theatre arts, general)

50.0599 Drama/theatre arts and stagecraft, other

This instructional program class comprises any program not listed above that relates to Drama/theatre arts and stagecraft.

Illustrative example(s)

- other drama/theatre arts and stagecraft

50.06 Film/video and photographic arts

This subseries comprises instructional program classes 50.0601 to 50.0699.

50.0601 Film/cinema/video studies

This instructional program class comprises any program in the visual arts that focuses on the study of the history, development, theory, and criticism of the film/video arts, as well as the basic principles of film making and film production.

Illustrative example(s)

- cinema studies
- film and video studies
- film history
- film history, theory, and criticism
- film studies
- film theory
- motion picture studies

Exclusion(s)

- documentary production (See 50.0607-Documentary production)
- film and video production (See 50.0602-Cinematography and film/video production)
- photography, film and video - technologist/technician and assistant (See 10.0201-Photographic and film/video technology/technician)
- theatre history (See 50.0505-Theatre literature, history and criticism)

50.0602 Cinematography and film/video production

This instructional program class comprises any program that prepares individuals to communicate dramatic information, ideas, moods, and feelings through the making and producing of films and videos. These programs include courses in theory of film, film technology and equipment operation, film production, film directing, film editing, cinematographic art, film audio, techniques for making specific types of films and/or videos, media technologies, computer image making, multi-media production, and the planning and management of film/video operations.

Illustrative example(s)

- cinema production
- cinematography
- film and video production
- film directing
- film making
- film production
- motion picture production

Exclusion(s)

- digital animation (See 10.0304-Animation, interactive technology, video graphics and special effects)
- documentary production (See 50.0607-Documentary production)
- film studies (See 50.0601-Film/cinema/video studies)
- photography, film and video - technologist/technician and assistant (See 10.0201-Photographic and film/video technology/technician)
- theatre production (See 50.0507-Directing and theatrical production)

50.0605 Photography

This instructional program class comprises any program that focuses on the principles and techniques of communicating information, ideas, moods, and feelings through the creation of images on photographic film, plates, digital images and that prepares individuals to be professional photographic artists. These programs include courses in camera and equipment operation and maintenance, film and plate developing, light and composition, films and printing media, colour and special effects, photographic art, photographic history, use of computer applications to record or enhance images and applications to the photography of various subjects.

Illustrative example(s)

- creative photography
- photographic art
- photography (except commercial)

Exclusion(s)

- commercial photography (See 50.0406-Commercial photography)
- photofinishing (See 10.0201-Photographic and film/video technology/technician)
- photojournalism (See 09.0404-Photojournalism)

50.0607 Documentary production

This instructional program class comprises any program that prepares individuals to produce nonfiction film and video. These programs include courses in film and video writing, directing, and production; film studies; history of the documentary; research techniques; videography; editing; and business aspects of film production.

Illustrative example(s)

- documentary production

Exclusion(s)

- film and video production (See 50.0602-Cinematography and film/video production)
- film studies (See 50.0601-Film/cinema/video studies)

50.0699 Film/video and photographic arts, other

This instructional program class comprises any program not listed above that relates to Film/video and photographic arts.

Illustrative example(s)

- other film/video and photographic arts

Exclusion(s)

- audiovisual technician (See 10.0299-Audiovisual communications technologies/technicians, other)
- commercial photography (See 50.0406-Commercial photography)
- photography, film and video - technologist/technician and assistant (See 10.0201-Photographic and film/video technology/technician)
- photojournalism (See 09.0404-Photojournalism)

50.07 Fine arts and art studies

This subseries comprises instructional program classes 50.0701 to 50.0799.

50.0701 Art/art studies, general

This instructional program class comprises any general program that focuses on the introductory study and appreciation of the visual arts. These programs include courses in art, photography, and other visual communications media.

Illustrative example(s)

- art studies

Exclusion(s)

- art (See 36.0110-Art (not for credit))
- art teacher (See 13.1302-Art teacher education)
- art therapy (See 51.2301-Art therapy/therapist)
- arts and crafts (See 50.0201-Crafts/craft design, folk art and artisanry)
- arts and science (See 24.0102-General studies)
- design arts (See 50.0401-Design and visual communications, general)

50.0702 Fine/studio arts, general

This instructional program class comprises any program that prepares individuals to generally function as creative artists in the visual and plastic media. These programs include courses in the traditional fine arts media (drawing, painting, sculpture, printmaking, CAD/CAM) and/or modern media (ceramics, textiles, intermedia, photography, digital images); theory of art; colour theory; composition and perspective; anatomy; the techniques and procedures for maintaining equipment and managing a studio; and art portfolio marketing.

Illustrative example(s)

- fine arts
- plastic arts
- studio arts

Exclusion(s)

- art (See 36.0110-Art (not for credit))
- arts and crafts (See 50.0201-Crafts/craft design, folk art and artisanry)
- commercial art (See 50.0402-Commercial and advertising art)
- creative photography (See 50.0605-Photography)
- fine arts teaching (See 13.1302-Art teacher education)

50.0703 Art history, criticism and conservation

This instructional program class comprises any program that focuses on the study of the historical development of art as a social and intellectual phenomenon, the analysis of works of art, and art conservation. These programs include courses in the theory of art, art history research methods, connoisseurship, the preservation and conservation of works of art, and the study of specific periods, cultures, styles, and themes.

Illustrative example(s)

- art conservation
- art history
- art history and criticism
- fine art history
- history and philosophy of art

Exclusion(s)

- cultural resource management and policy analysis (See 30.1202-Cultural resource management and policy analysis)
- history (See 54.0101-History, general)
- museum studies (See 30.1401-Museology/museum studies)

Inclusion(s)

- art restoration

50.0705 Drawing

This instructional program class comprises any program that prepares individuals creatively and technically to express emotions, ideas, or inner visions through representation by lines made on a surface. These programs include courses in eye-hand coordination; line, value, shape, and perspective; figure and still life drawing; the use of media such as pen and ink, pencil, charcoal, pastel, and brush; and personal style development.

Illustrative example(s)

- drawing

Exclusion(s)

- art (See 36.0110-Art (not for credit))
- graphic design (See 50.0409-Graphic design)
- illustration (See 50.0410-Illustration)
- technical drawing (See 15.1301-Drafting and design technology/technician, general)

50.0706 Intermedia/multimedia

This instructional program class comprises any program that prepares individuals creatively and technically to express emotions, ideas, or inner visions in either two or three dimensions, through simultaneous use of a variety of materials and media.

Illustrative example(s)

- intermedia
- multimedia art

Exclusion(s)

- digital communication and multimedia (See 09.0702-Digital communication and media/multimedia)
- educational media (See 13.0501-Educational/instructional technology)
- interactive multimedia and design (See 11.0801-Web page, digital/multimedia and information resources design)
- webmaster (See 11.1004-Web/multimedia management and webmaster)

50.0708 Painting

This instructional program class comprises any program that prepares individuals creatively and technically to express emotions, ideas, or inner visions by the application of paints and related chemical colour substances to canvases or other materials. These programs include courses in colour and colour mixing; surface preparation; composition; oil and acrylic media; watercolour media; painting techniques; and personal style development.

Illustrative example(s)

- artistic painting
- fine art painting

Exclusion(s)

- art (See 36.0110-Art (not for credit))
- commercial art (See 50.0402-Commercial and advertising art)

- fine arts (See 50.0702-Fine/studio arts, general)
- painter and wall coverer (See 46.0408-Painting/painter and wall coverer)

50.0709 Sculpture

This instructional program class comprises any program that prepares individuals creatively and technically to express emotions, ideas, or inner visions by creating three-dimensional art works. These programs include courses in the analysis of form in space; round and relief concepts; sculptural composition; modern and experimental methods; different media such as clay, plaster, wood, stone, and metal; techniques such as carving, moulding, welding, casting, and modelling; and personal style development.

Illustrative example(s)

- carving
- sculpture

Exclusion(s)

- art (See 36.0110-Art (not for credit))
- arts and crafts (See 50.0201-Crafts/craft design, folk art and artisanry)
- ironworker (See 48.0509-Ironworking/ironworker)
- metal arts (See 50.0714-Metal arts)
- woodworking (See 48.0701-Woodworking, general)

50.0710 Printmaking

This instructional program class comprises any program that prepares individuals creatively and technically to express emotions, ideas, or inner visions by rendering art concepts onto surfaces and transferring images, via ink or dyes, onto paper or fabric. These programs include courses in monochrome and colour printing; tonality; chemistry; equipment set-up and maintenance; techniques such as serigraphy, lithography, intaglio, woodcut, block, stencil, relief, etching, and composite; and personal style development.

Illustrative example(s)

- lithography
- photolithography
- printmaking
- serigraphy
- silk screen printing

Exclusion(s)

- graphic communications (See 10.0301-Graphic communications, general)
- platemaking (See 10.0306-Platemaker/imager)
- screen printing (See 10.0305-Graphic and printing equipment operator, general production)

50.0711 Ceramic arts and ceramics

This instructional program class comprises any program that prepares individuals creatively and technically to express emotions, ideas, or inner visions by producing art works out of clay and similar materials. These programs include courses in hand-built and wheel-thrown techniques; moulding; slips and glazes; trimming and decorating; firing and kiln operation; oxidation; mixed media; ceramic murals; and personal style development.

Illustrative example(s)

- ceramic arts
- ceramics
- pottery

Exclusion(s)

- art studies (See 50.0701-Art/art studies, general)
- arts and crafts (See 50.0201-Crafts/craft design, folk art and artisanry)

- ceramic sciences (See 14.0601-Ceramic sciences and engineering)

50.0712 Fibre, textile and weaving arts

This instructional program class comprises any program that prepares individuals creatively and technically to express emotions, ideas, or inner visions by constructing art works from woven or non-woven fabrics and fibrous materials. These programs include courses in weaving techniques and loom operation; non-woven techniques such as knitting, coiling, netting, and crocheting; quilting; dyeing and pigmentation; printing and other finishing techniques; pattern design; tapestry; and personal style development.

Illustrative example(s)

- fibre arts
- textile arts
- textile studies
- weaving

Exclusion(s)

- arts and crafts (See 50.0201-Crafts/craft design, folk art and artisanry)
- clothing and textiles (See 19.0901-Apparel and textiles, general)
- fabric design (See 19.0902-Apparel and textile manufacture)
- fashion design (See 50.0407-Fashion/apparel design)

50.0713 Jewellery arts

This instructional program class comprises any program that prepares individuals creatively and technically to express emotions, ideas, or inner visions by fashioning jewelry from gems, other stones, and precious metals. These programs include courses in design concepts, electroforming, enamelling, gemology, lapidary technique and art, metal and non-metal casting and molding, metal colouring, metalsmithing and finishing, personal style development, photo etching, and stone cutting and polishing.

Illustrative example(s)

- gemology
- jewellery arts
- jewellery design

Exclusion(s)

- folk art and artisanry (See 50.0201-Crafts/craft design, folk art and artisanry)
- goldsmithing (See 50.0714-Metal arts)
- jeweller (See 47.0408-Watchmaking and jewellery making)
- metal arts (See 50.0714-Metal arts)
- mineralogy (See 40.0606-Geochemistry and petrology)
- silversmithing (See 50.0714-Metal arts)

50.0714 Metal arts

This instructional program class comprises any program that focuses on the development of individual artistic expression and technical skills necessary for fabricating refined metal works. These programs include courses in aesthetics, anodizing, art history, casting, design, electroforming, enamelling, metalsmithing, sculpture, two and three-dimensional design, wax carving, and welding.

Illustrative example(s)

- goldsmithing
- metal arts
- silversmithing

Exclusion(s)

- blacksmith (See 48.0599-Precision metal working, other)

- folk art and artisanry (See 50.0201-Crafts/craft design, folk art and artisanry)
- jewellery arts (See 50.0713-Jewellery arts)
- metal fabricator (See 48.0511-Metal fabricator)
- metallurgy (See 40.1099-Materials sciences, other)

50.0799 Fine arts and art studies, other

This instructional program class comprises any program not listed above that relates to Fine arts and art studies.

Illustrative example(s)

- artistic glass making
- glass blower
- glass blowing
- other fine arts and art studies
- picture framing

Exclusion(s)

- art therapy (See 51.2301-Art therapy/therapist)
- arts and crafts (See 50.0201-Crafts/craft design, folk art and artisanry)
- glazier (See 46.0406-Glazier)

50.09 Music

This subseries comprises instructional program classes 50.0901 to 50.0999.

50.0901 Music, general

This instructional program class comprises any general program that focuses on the introductory study and appreciation of music and the performing arts. These programs include courses in music, dance, and other performing arts media.

Illustrative example(s)

- classical music
- music
- music foundation
- musical arts

Exclusion(s)

- music (not for credit) (See 36.0115-Music (not for credit))
- music teacher (See 13.1312-Music teacher education)
- music technology (See 50.0913-Music technology)
- music therapy (See 51.2305-Music therapy/therapist)
- musical theatre (See 50.0509-Musical theatre)
- piano tuning (See 47.0404-Musical instrument fabrication and repair)
- recording arts technology (See 10.0203-Recording arts technology/technician)
- religious music (See 39.0501-Religious/sacred music)

50.0902 Music history, literature and theory

This instructional program class comprises any program that focuses on the study of the historical evolution of music as a social and intellectual phenomenon, the development of musical instruments and techniques, and the analysis and criticism of musical literature. These programs include courses in music history research methods, aesthetic analysis of musical compositions, history of musical writing and notation, the development of musical instruments, the development of music theory, and the study of specific periods, cultural traditions, styles, and themes.

Illustrative example(s)

- music criticism
- music history
- music history and literature
- music literature

Exclusion(s)

- art history and criticism (See 50.0703-Art history, criticism and conservation)
- history (See 54.0101-History, general)
- music teacher (See 13.1312-Music teacher education)
- music theory and composition (See 50.0904-Music theory and composition)
- musicology (See 50.0905-Musicology and ethnomusicology)

50.0903 Music performance, general

This instructional program class comprises any program that generally prepares individuals to master musical instruments and performing art as solo and/or ensemble performers. These programs include courses in one or more specific instruments from various instrumental groupings.

Illustrative example(s)

- chamber music performance
- early music performance
- instrumental performance
- music performance
- music performance studies
- orchestral performance
- period instrument performance
- period instruments
- popular music performance

Exclusion(s)

- brass instruments (See 50.0914-Brass instruments)
- guitar (See 50.0911-Stringed instruments)
- jazz performance (See 50.0910-Jazz/jazz studies)
- music - percussion (See 50.0916-Percussion instruments)
- music (not for credit) (See 36.0115-Music (not for credit))
- music technology (See 50.0913-Music technology)
- musical theatre (See 50.0509-Musical theatre)
- opera singing (See 50.0908-Voice and opera)
- piano (See 50.0907-Keyboard instruments)
- woodwind (See 50.0915-Woodwind instruments)

50.0904 Music theory and composition

This instructional program class comprises any program that focuses on the study of the principles of sound manipulation as applied to the creation of music, and the techniques of creating and arranging music. These programs include courses in aural theory, melody, counterpoint, complex harmony, modulation, chromatics, improvisation, progressions, musical writing, instrumentation, orchestration, electronic and computer applications, studies of specific musical styles, and development of original creative ability.

Illustrative example(s)

- electroacoustic composition
- instrumental composition
- music arranging
- music composition
- music theory

- music theory and composition
- musical orchestration

Exclusion(s)

- computer-assisted scoring (See 50.0913-Music technology)
- computer-assisted sonic design (See 50.0917-Sound arts)
- music history (See 50.0902-Music history, literature and theory)
- music teacher (See 13.1312-Music teacher education)
- musical arts (See 50.0901-Music, general)
- musical theatre (See 50.0509-Musical theatre)

50.0905 Musicology and ethnomusicology

This instructional program class comprises any program that focuses on the systematic study of the forms and methods of music art, and the functions of music, in Western and non-Western societies and cultures. These programs include courses in music theory, musicological research methods, and studies of specific cultural styles such as jazz, folk music, rock, ethnic musical traditions, and the music of non-Western cultures.

Illustrative example(s)

- ethnomusicology
- musicology

Exclusion(s)

- music history (See 50.0902-Music history, literature and theory)
- music teacher (See 13.1312-Music teacher education)
- musical arts (See 50.0901-Music, general)

50.0906 Conducting

This instructional program class comprises any program that prepares individuals to master the art of leading bands, choirs, orchestras and other ensembles in performance, and related music leadership. These programs include courses in score analysis and arranging, rehearsal and performance leadership, music coaching, arrangement and performance planning, ensemble operations management, and applications to specific school or professional ensembles.

Illustrative example(s)

- band conductor
- bandmaster
- choral conducting
- music conducting
- orchestra conductor
- orchestral conducting

Exclusion(s)

- classical music (See 50.0901-Music, general)
- music teacher (See 13.1312-Music teacher education)
- musical orchestration (See 50.0904-Music theory and composition)
- musical theatre (See 50.0509-Musical theatre)
- religious music (See 39.0501-Religious/sacred music)

50.0907 Keyboard instruments

This instructional program class comprises any program that prepares individuals to master the piano, organ, or related keyboard instruments and performing art as solo, ensemble, and/or accompanist performers. These programs include courses in piano and keyboard pedagogy, ensemble playing, accompanying, service playing, repertoire, keyboard and pedal skills, recital, and personal style development.

Illustrative example(s)

- harpsichord
- keyboard instruments
- music - keyboard
- organ
- piano
- piano performance

Exclusion(s)

- music performance (See 50.0903-Music performance, general)
- music teacher (See 13.1312-Music teacher education)
- piano tuning (See 47.0404-Musical instrument fabrication and repair)
- religious music (See 39.0501-Religious/sacred music)

50.0908 Voice and opera

This instructional program class comprises any program that prepares individuals to master the human voice and performing art as solo and/or ensemble performers in concert, choir, opera, or other forms of singing. These programs include courses in voice pedagogy, diction, vocal physiology and exercise, expressive movement, repertoire, recital, and personal style development.

Illustrative example(s)

- baritone (singer)
- music - vocal
- opera
- opera singing
- operatic performance
- singing
- vocal performance
- voice
- voice and opera

Exclusion(s)

- baritone (brass instrument) (See 50.0914-Brass instruments)
- music performance (See 50.0903-Music performance, general)
- music teacher (See 13.1312-Music teacher education)
- religious music (See 39.0501-Religious/sacred music)

50.0910 Jazz/jazz studies

This instructional program class comprises any program that prepares individuals to study and master the performance and composition of jazz. These programs include courses in the history of jazz and related musical styles such as the blues, jazz composition and theory, improvisation, jazz instrument and ensemble performance, and related topics.

Illustrative example(s)

- jazz
- jazz music
- jazz performance
- jazz studies

Exclusion(s)

- music performance (See 50.0903-Music performance, general)
- music teacher (See 13.1312-Music teacher education)

50.0911 Stringed instruments

This instructional program class comprises any program that prepares individuals to master a stringed instrument and performing arts as solo, ensemble and/or accompanist performers. These programs include courses in playing and personal style development.

Illustrative example(s)

- cello
- double bass
- guitar
- harp
- stringed instruments
- viola
- violin
- violin performance

Exclusion(s)

- music performance (See 50.0903-Music performance, general)
- music teacher (See 13.1312-Music teacher education)
- violin making (See 47.0404-Musical instrument fabrication and repair)

50.0912 Music pedagogy

This instructional program class comprises any program that prepares individuals to provide musical instruction and tutoring to clients in private and institutional settings. These programs include courses in music theory, music composition, mastery of one or more instruments, familiarity with various musical genres and styles, principles of music education, and client communications.

Illustrative example(s)

- instrumental pedagogy
- Kodaly concept of music education
- Kodaly methodology
- music pedagogy
- Suzuki method
- Suzuki piano pedagogy

Exclusion(s)

- learning sciences research (See 13.0607-Learning sciences)
- music (See 50.0901-Music, general)
- music teacher (See 13.1312-Music teacher education)

50.0913 Music technology

This instructional program class comprises any program that focuses on the creative aspects of the blending of music and technology; and that prepares individuals to apply technical knowledge and skills to the composition, recording, synthesis, and performance of music; audio-visual production; scoring for film and multimedia; and software and multimedia development. These programs include courses in music theory, music history, composition, acoustics, recording technology, computer composition, electronic music synthesis, technology-based performance, 3D sound and spatial audio, and music business and law.

Illustrative example(s)

- computer-assisted scoring
- music technology

Exclusion(s)

- computer-assisted sonic design (See 50.0917-Sound arts)

- music (See 50.0901-Music, general)
- music composition (See 50.0904-Music theory and composition)
- music performance (See 50.0903-Music performance, general)
- music production (See 50.0999-Music, other)
- recording arts technology (See 10.0203-Recording arts technology/technician)
- sound arts (See 50.0917-Sound arts)

50.0914 Brass instruments

This instructional program class comprises any program that prepares individuals to master a brass instrument and performing art as solo, ensemble, and/or accompanist performers. These programs include courses in playing and personal style development.

Illustrative example(s)

- baritone (brass instrument)
- brass instruments
- euphonium
- horn
- trombone
- trumpet
- tuba

Exclusion(s)

- baritone (singer) (See 50.0908-Voice and opera)
- instrumental performance (See 50.0903-Music performance, general)
- music teacher (See 13.1312-Music teacher education)

50.0915 Woodwind instruments

This instructional program class comprises any program that prepares individuals to master a woodwind instrument and performing art as solo, ensemble, and/or accompanist performers. These programs include courses in playing and personal style development.

Illustrative example(s)

- bassoon
- clarinet
- flute
- oboe
- saxophone
- woodwind
- woodwind instruments

Exclusion(s)

- instrumental performance (See 50.0903-Music performance, general)
- music teacher (See 13.1312-Music teacher education)

50.0916 Percussion instruments

This instructional program class comprises any program that prepares individuals to master percussion instruments and performing art for a variety of musical settings, including orchestral, solo, chamber, commercial, or nontraditional. These programs include courses in playing and personal style development.

Illustrative example(s)

- bass drum
- music - percussion
- percussion instruments
- snare drum

- timpani
- vibraphone

Exclusion(s)

- instrumental performance (See 50.0903-Music performance, general)
- music teacher (See 13.1312-Music teacher education)

50.0917 Sound arts

This instructional program class comprises any program that focuses on sound as a form of cultural expression, and its relationship to other disciplines such as computer programming, performance, and video. These programs include courses in acoustics; arranging, composing, and editing music; music theory; musicology; orchestration and scoring; and sound design.

Illustrative example(s)

- computer-assisted sonic design
- sound art
- sound arts

Exclusion(s)

- computer-assisted scoring (See 50.0913-Music technology)
- music technology (See 50.0913-Music technology)

50.0999 Music, other

This instructional program class comprises any program not listed above that relates to Music.

Illustrative example(s)

- music production
- other music

Exclusion(s)

- music recording engineering (See 15.0307-Audio/sound engineering technology/technician)
- music teacher (See 13.1312-Music teacher education)
- music technology (See 50.0913-Music technology)
- music therapy (See 51.2305-Music therapy/therapist)
- musical theatre (See 50.0509-Musical theatre)
- piano tuning (See 47.0404-Musical instrument fabrication and repair)
- recording arts technology (See 10.0203-Recording arts technology/technician)
- religious music (See 39.0501-Religious/sacred music)

50.10 Arts, entertainment, and media management

This subseries comprises instructional program classes 50.1001 to 50.1099.

50.1001 Arts, entertainment, and media management, general

This instructional program class comprises any program that prepares individuals to organize and manage various aspects of the visual arts, performing arts, and entertainment media industries. These programs include courses in business and financial management, marketing and fund-raising, labour relations for the arts, event promotion and management, product and artist management, and applicable law.

Illustrative example(s)

- artist management
- arts administration
- arts management
- entertainment business

- entertainment management
- performing arts administration

Exclusion(s)

- fine arts management (See 50.1002-Fine and studio arts management)
- management (See 52.0201-Business administration and management, general)
- music industry management (See 50.1003-Music management)
- theatre arts management (See 50.1004-Theatre/theatre arts management)

50.1002 Fine and studio arts management

This instructional program class comprises any program that prepares individuals to organize and manage fine and studio art organizations, operations, and facilities. These programs include courses in business and financial management; marketing and fundraising; personnel management and labour relations; event promotion and management; public relations and arts advocacy; arts law; and applications to specific arts activities such as galleries, museums, studios, foundations, and community organizations.

Illustrative example(s)

- fine arts management
- studio arts management
- visual arts management

Exclusion(s)

- arts administration (See 50.1001-Arts, entertainment, and media management, general)
- music industry management (See 50.1003-Music management)
- theatre arts management (See 50.1004-Theatre/theatre arts management)

50.1003 Music management

This instructional program class comprises any program that prepares individuals to organize and manage music organizations, operations, facilities, and personnel. These programs include courses in business and financial management; marketing and fundraising; personnel management and labour relations; event promotion and management; music products merchandising; artist agency and promotion; music law; and applications to specific activities such as managing theatres, recording studios and companies, bands and other ensembles, individual artists, and music organizations.

Illustrative example(s)

- music administrative studies
- music business
- music industry management
- music management
- music merchandising

Exclusion(s)

- arts administration (See 50.1001-Arts, entertainment, and media management, general)

50.1004 Theatre/theatre arts management

This instructional program class comprises any program that prepares individuals to apply business management principles to the management of theatres and production corporations. These programs include courses in theatrical production, theatre design and planning, fund-raising and promotion, investment strategies, human resources management, theatre operations management, marketing, public relations, financial management and insurance, and applicable laws and regulations.

Illustrative example(s)

- theatre arts management
- theatrical management

Exclusion(s)

- arts administration (See 50.1001-Arts, entertainment, and media management, general)
- business administration (See 52.0201-Business administration and management, general)
- fundraising (See 52.0206-Non-profit/public/organizational management)
- production management (See 52.0205-Operations management and supervision)

50.1099 Arts, entertainment, and media management, other

This instructional program class comprises any program not listed above related to Arts, entertainment, and media management.

Illustrative example(s)

- other arts, entertainment, and media management

50.11 Community/environmental/socially-engaged art

This subseries comprises instructional program class 50.1101.

50.1101 Community/environmental/socially-engaged art

This instructional program class comprises any program that focuses on using the arts to promote activism, civic dialog, community development, ecological and environmental awareness, or social justice. These programs include courses in community organizing, cultural criticism, social practice, studio art, and visual and performing arts.

Illustrative example(s)

- art and social practice
- community art
- community arts practice
- environmental art
- social art practice
- social practice art
- socially-engaged art
- socially-engaged studio art

Exclusion(s)

- arts in health (See 51.3206-Arts in medicine/health)
- community organization and advocacy (See 44.0201-Community organization and advocacy)
- social entrepreneurship (See 52.0704-Social entrepreneurship)

50.99 Visual and performing arts, other

This subseries comprises instructional program class 50.9999.

50.9999 Visual and performing arts, other

This instructional program class comprises any program not listed above that relates to Visual and performing arts.

Illustrative example(s)

- circus arts
- other visual and performing arts

Exclusion(s)

- art therapy (See 51.2301-Art therapy/therapist)
- dance therapy (See 51.2302-Dance therapy/therapist)
- drama and dance teacher education (See 13.1324-Drama and dance teacher education)
- music teacher (See 13.1312-Music teacher education)

- music therapy (See 51.2305-Music therapy/therapist)

51. Health professions and related programs

This series comprises instructional programs that prepare individuals to practice as licensed professionals and assistants in the health care professions and related clinical sciences and administrative and support services.

51.00 General health services/allied health/health sciences

This subseries comprises instructional program classes 51.0000 and 51.0001.

51.0000 Health services/allied health/health sciences, general

This instructional program class comprises any general, introductory, undifferentiated, or joint program in health services occupations that prepares individuals for either entry into specialized training programs or for a variety of concentrations in the allied health area. These programs include courses in the basic sciences, research and clinical procedures, and aspects of the subject matter related to various health occupations.

Illustrative example(s)

- Aboriginal health
- health
- health sciences
- health sciences - Aboriginal health
- health sciences - Indigenous health
- health services
- health studies
- Indigenous health

Exclusion(s)

- health care interpreting (See 16.0103-Language interpretation and translation)
- health law (graduate level) (See 22.0208-Health law (LLM, MJ, LLD, JSD/SJD))
- health promotion and wellness (See 51.0001-Health and wellness, general)
- home health aide (See 51.2602-Home health aide/home attendant)
- medical biology (See 26.0102-Biomedical sciences, general)
- medicine (See 51.1201-Medicine (MD))

51.0001 Health and wellness, general

This instructional program class comprises any program that prepares individuals to assume roles as health/wellness professionals in private business and industry, community organizations, and health care settings. These programs include courses in personal health, community health and welfare, nutrition, epidemiology, disease prevention, fitness and exercise, and health behaviours.

Illustrative example(s)

- Aboriginal health and wellness
- health and wellness
- health promotion and wellness
- Indigenous health and wellness
- wellness, health promotion and injury prevention

Exclusion(s)

- health sciences (See 51.0000-Health services/allied health/health sciences, general)

51.01 Chiropractic (DC)

This subseries comprises instructional program class 51.0101.

51.0101 Chiropractic (DC)

This instructional program class comprises any program that prepares individuals for the independent professional practice of chiropractic, a health care and healing system based on the application of non-invasive treatments and spinal adjustments to alleviate health problems caused by vertebral misalignments affecting bodily function as derived from the philosophy of Daniel Palmer. These programs include courses in the basic medical sciences, chiropractic theory and science, postural and spinal analysis, diagnostic radiology and ultrasound, adjustment technique, patient counselling, professional standards and ethics, and practice management.

Illustrative example(s)

- chiropractic
- chiropractor
- doctor of chiropractic medicine (DC)

Exclusion(s)

- chiropodist (See 51.1203-Podiatric medicine/podiatry (DPM))
- chiropractic assistant (See 51.0813-Chiropractic assistant/technician)
- pre-chiropractic studies (See 51.1106-Pre-chiropractic studies)

51.02 Communication disorders sciences and services

This subseries comprises instructional program classes 51.0201 to 51.0299.

51.0201 Communication sciences and disorders, general

This instructional program class comprises any program that focuses on the application of biomedical, psychological, and physical principles to the study of the scientific bases, development, and treatment of speech, language, hearing, and cognitive communication problems caused by disease, injury, or disability. These programs include courses in language science, hearing science, speech and voice science, biology of communication, behavioural linguistics, psychology, and applications to the development of diagnostic and rehabilitative strategies and technologies.

Illustrative example(s)

- communication disorders
- communication sciences and disorders

Exclusion(s)

- audiology (See 51.0202-Audiology/audiologist)
- communication sciences (See 09.0100-Communication, general)
- communication studies (See 09.0100-Communication, general)
- speech-language pathology (See 51.0203-Speech-language pathology/pathologist)
- teacher of the deaf (See 13.1003-Education/teaching of individuals with hearing impairments including deafness)

51.0202 Audiology/audiologist

This instructional program class comprises any program that prepares individuals to diagnose and treat hearing loss and other disorders involving the ear, advise patients on means to use their remaining hearing, and select and fit hearing aids and other devices. These programs include courses in acoustics, anatomy and physiology of hearing, hearing measurement, auditory pathology, middle and inner ear analysis, rehabilitation therapies and assistive technologies, and pediatric and other special applications.

Illustrative example(s)

- audiologist
- audiology
- audiology and hearing sciences

Exclusion(s)

- communication disorders (See 51.0201-Communication sciences and disorders, general)
- hearing aid specialist (See 51.0918-Hearing instrument specialist)
- speech therapy and audiology (See 51.0204-Audiology/audiologist and speech-language pathology/pathologist)
- teacher of the deaf (See 13.1003-Education/teaching of individuals with hearing impairments including deafness)

51.0203 Speech-language pathology/pathologist

This instructional program class comprises any program that prepares individuals to evaluate the speaking, language interpretation, and related physiological and cognitive capabilities of children and/or adults and develop treatment and rehabilitative solutions in consultation with clinicians and educators. These programs include courses in the anatomy and physiology of speech and hearing; biomechanics of swallowing and vocal articulation; communications disorders; psychology of auditory function and cognitive communication; language assessment and diagnostic techniques; and rehabilitative and management therapies.

Illustrative example(s)

- speech language pathologist
- speech pathologist
- speech pathology
- speech therapy
- speech-language pathology

Exclusion(s)

- communication disorders (See 51.0201-Communication sciences and disorders, general)
- communication studies (See 09.0100-Communication, general)
- education of individuals with speech or language impairments (See 13.1012-Education/teaching of individuals with speech or language impairments)
- speech teacher education (See 13.1331-Speech teacher education)
- speech therapy and audiology (See 51.0204-Audiology/audiologist and speech-language pathology/pathologist)
- speech-language pathology assistant (See 51.0816-Speech-language pathology assistant)

51.0204 Audiology/audiologist and speech-language pathology/pathologist

This instructional program class comprises any integrated program that prepares individuals to work as both audiologists and speech-language pathologists. These programs include courses in a variety of communication disorder studies, audiology, speech pathology, language acquisition, and the design and implementation of comprehensive therapeutic and rehabilitative solutions to communications problems.

Illustrative example(s)

- audiologist and speech language pathologist
- audiology and speech-language pathology
- combined audiologist and speech language pathologist
- combined audiology and speech language pathology
- speech pathology and audiology
- speech therapy and audiology

Exclusion(s)

- audiology (See 51.0202-Audiology/audiologist)
- communication disorders (See 51.0201-Communication sciences and disorders, general)
- education of individuals with speech or language impairments (See 13.1012-Education/teaching of individuals with speech or language impairments)
- speech-language pathology (See 51.0203-Speech-language pathology/pathologist)

51.0299 Communication disorders sciences and services, other

This instructional program class comprises any program not listed above that relates to Communication disorders sciences and services.

Illustrative example(s)

- child speech-language disorders
- other communication disorders sciences and services
- pre-speech language pathology and audiology

Exclusion(s)

- communication sciences and disorders (See 51.0201-Communication sciences and disorders, general)
- speech-language pathology assistant (See 51.0816-Speech-language pathology assistant)

51.04 Dentistry (DDS, DMD)

This subseries comprises instructional program class 51.0401.

51.0401 Dentistry (DDS, DMD)

This instructional program class comprises any program that prepares individuals for the independent professional practice of dentistry/dental medicine, encompassing the evaluation, diagnosis, prevention, and treatment of diseases, disorders, and conditions of the oral cavity, maxillofacial area, and adjacent structures and their impact on the human body and health. These programs include courses in the basic biomedical sciences; occlusion; dental health and prevention; oral pathology; cariology; operative dentistry; oral radiology; principles of the various dental specialties; pain management; oral medicine; clinic and health care management; patient counselling; and professional standards and ethics.

Illustrative example(s)

- DDS
- dentist
- dentistry
- DMD
- doctor of dental medicine
- doctor of dental surgery
- doctor of medical dentistry

Exclusion(s)

- advanced general dentistry (See 51.0502-Advanced general dentistry (Cert., MS, MSc, PhD))
- dental sciences (MS, MSc, PhD) (See 51.0501-Dental clinical sciences, general (MS, MSc, PhD))
- dental/oral surgery specialty - residency (See 60.0101-Oral and maxillofacial surgery residency programs)
- oral and maxillofacial radiology - residency (See 60.0109-Oral and maxillofacial radiology residency programs)
- oral and maxillofacial surgery (Cert., MS, MSc, PhD) (See 51.0507-Oral/maxillofacial surgery (Cert., MS, MSc, PhD))
- pediatric dentistry (Cert., MS, MSc, PhD) (See 51.0509-Pediatric dentistry/pedodontics (Cert., MS, MSc, PhD))
- pre-dentistry (See 51.1101-Pre-dentistry studies)

51.05 Advanced/graduate dentistry and oral sciences (Cert., MS, MSc, PhD)

This subseries comprises instructional program classes 51.0501-51.0599.

51.0501 Dental clinical sciences, general (MS, MSc, PhD)

This instructional program class comprises any program integrated or undifferentiated program that generally prepares dentists in one or more of the oral sciences and advanced/graduate dentistry specialties.

Illustrative example(s)

- dental clinical sciences (MS, MSc, PhD)
- dental sciences (MS, MSc, PhD)

Exclusion(s)

- dental assistant (See 51.0601-Dental assisting/assistant)
- dental hygienist (See 51.0602-Dental hygiene/hygienist)
- dental technician (See 51.0603-Dental laboratory technology/technician)
- dental/oral surgery specialty - residency (See 60.0101-Oral and maxillofacial surgery residency programs)
- dentistry (See 51.0401-Dentistry (DDS, DMD))
- medical clinical science (MS, MSc, PhD) (See 51.1401-Medical science/scientist (MS, MSc, PhD))

51.0502 Advanced general dentistry (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the advanced study of dental clinical techniques and dental practice issues. These programs include courses in subjects such as the history of dentistry; advanced dental practice management; dental ethics and jurisprudence; social and behavioural science studies of dentistry; advanced restorative dentistry; oral medicine; oral radiology; advanced clinical procedures and technology; and others.

Illustrative example(s)

- advanced education in general dentistry program
- advanced general dentistry
- AEGD

Exclusion(s)

- dental/oral surgery specialty - residency (See 60.0101-Oral and maxillofacial surgery residency programs)
- dentistry (See 51.0401-Dentistry (DDS, DMD))
- geriatric dentistry (Cert., MS, MSc, PhD) (See 51.0513-Geriatric dentistry (Cert., MS, MSc, PhD))

51.0503 Oral biology and oral and maxillofacial pathology (MS, MSc, PhD)

This instructional program class comprises any program that focuses on the scientific study of the growth, development, diseases, healing properties, and neurological components of the oral cavity, related tissues and organs, and associated craniofacial areas. These programs include courses in oral microbiology microanatomy, craniofacial pain, humoral aspects of disease, etiology and histology of caries, plaque ecology, wound healing, oral disease epidemiology, oral manifestations of systemic disease, lesions, normal and pathologic physiology, and related molecular and physical studies.

Illustrative example(s)

- craniofacial biology (MS, MSc, PhD)
- oral and craniofacial biology (MS, MSc, PhD)
- oral and maxillofacial pathology (MS, MSc, PhD)
- oral biology (MS, MSc, PhD)
- oral biology and oral and maxillofacial pathology (MS, MSc, PhD)

Exclusion(s)

- biology (See 26.0101-Biology/biological sciences, general)
- oral and maxillofacial radiology - residency (See 60.0109-Oral and maxillofacial radiology residency programs)
- pathology (See 26.0910-Pathology/experimental pathology)

51.0504 Dental public health and education (Cert., MS, MSc, MPH, PhD, DPH)

This instructional program class comprises any program that focuses on the scientific study of dental disease prevention and control, community dental health promotion, and prepares dentists and public health professionals

to function as dental health specialists. These programs include courses in preventive dentistry; the relationship of oral disease to health and quality of life; patient and practitioner behaviour; dental epidemiology; nutrition and dental health; dental care policy and delivery; oral health program planning and administration; biostatistics; and research methods.

Illustrative example(s)

- dental public health (Master's degree)
- dental public health (PhD)
- dental public health and education (Cert., MS, MSc, MPH, PhD, DPH)
- doctorate in dental public health (DPH)
- Master's degree in dental public health (MPH)

Exclusion(s)

- dental hygienist (See 51.0602-Dental hygiene/hygienist)
- dental public health specialty - residency (See 60.0102-Dental public health residency programs)
- public health (MPH, DPH) (See 51.2201-Public health, general (BPH, MPH, DPH))
- public health education and promotion (See 51.2207-Public health education and promotion)

51.0505 Dental materials (MS, MSc, PhD)

This instructional program class comprises any program that focuses on the scientific study of the biomaterials and inert and active compounds used in dental procedures; the development of dental materials; and their effects on the living tissues of the oral cavity and systemic bodily health. These programs include courses in materials science, dental bioengineering, biocompatibility of materials; physics and mechanics of dental materials; elastic and plastic deformation; surface bonding; and applications to fixed and removable prostheses and restorative procedures.

Illustrative example(s)

- dental materials (MS, MSc, PhD)

Exclusion(s)

- dental technician (See 51.0603-Dental laboratory technology/technician)
- materials science (See 40.1001-Materials science)
- prosthodontics specialty - residency (See 60.0108-Prosthodontics residency programs)
- prosthodontology (Cert., MS, MSc, PhD) (See 51.0511-Prosthodontics/prosthodontology (Cert., MS, MSc, PhD))

51.0506 Endodontics/endodontology (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the advanced study of the morphology, physiology, and pathology of human dental pulp and periradicular tissues, and prepares dentists to diagnose and treat internal diseases and injuries of teeth. These programs include courses in theory and practice of endodontics; pulpal disease; relationship of endodontic conditions to other dental/oral health issues; endodontic operative technique; and patient care and management.

Illustrative example(s)

- endodontics (Cert., MS, MSc, PhD)
- endodontist (Cert., MS, MSc, PhD)
- endodontology (Cert., MS, MSc, PhD)

Exclusion(s)

- endodontics specialty - residency (See 60.0103-Endodontics residency programs)

51.0507 Oral/maxillofacial surgery (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the advanced study of the diagnosis and intrusive and adjunctive treatment of diseases, injuries, and defects of the oral and maxillofacial regions, including

functional and aesthetic aspects. These programs include courses in pharmacology, analgesia, anesthesia, anxiety control, surgical procedures and techniques, surgical instrumentation, exodontia, oral diseases and malfunctions, soft and hard tissue pathology, dentoalveolar surgery, infection management, and prosthetic implantation.

Illustrative example(s)

- maxillofacial surgery (Cert., MS, MSc, PhD)
- oral and maxillofacial surgery (Cert., MS, MSc, PhD)
- oral surgery (Cert., MS, MSc, PhD)

Exclusion(s)

- dental/oral surgery specialty - residency (See 60.0101-Oral and maxillofacial surgery residency programs)
- dentistry (See 51.0401-Dentistry (DDS, DMD))
- oral and maxillofacial radiology - residency (See 60.0109-Oral and maxillofacial radiology residency programs)

51.0508 Orthodontics/orthodontology (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the advanced study of the guidance of growing dental structures and the correction of misalignments, disproportionate growth, and traumas caused by genetics, disease, injuries, and dysfunctional behaviours. These programs include courses in craniofacial growth and development, malocclusion, design and fabrication of orthodontic appliances, craniofacial alignment, physiological function and analysis, cephalometrics, model analysis, space analysis, surgical orthodontics, cleft lip and palate, and treatment planning and management.

Illustrative example(s)

- orthodontics (Cert., MS, MSc, PhD)
- orthodontics and dentofacial orthopedics (Cert., MS, MSc, PhD)
- orthodontist (Cert., MS, MSc, PhD)
- orthodontology (Cert., MS, MSc, PhD)

Exclusion(s)

- orthodontic assistant (See 51.0699-Dental support services and allied professions, other)
- orthodontics specialty - residency (See 60.0105-Orthodontics residency programs)

51.0509 Pediatric dentistry/pedodontics (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the advanced study of the therapeutic and preventive care of the oral health of children from birth through adolescence, and the care of adults with physical, mental, and emotional disabilities. These programs include courses in developmental oral biology, preventive medicine, diet therapy and counselling, pediatric restorative procedures, pulp therapy, trauma management, anesthesia, treatment planning, patient management, and the treatment of handicapped patients.

Illustrative example(s)

- pediatric dentistry (Cert., MS, MSc, PhD)
- pedodontics (Cert., MS, MSc, PhD)

Exclusion(s)

- pedodontics specialty - residency (See 60.0106-Pediatric dentistry residency programs)

51.0510 Periodontics/periodontology (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the advanced study of the etiology and treatment of diseases of the gingivae (gum tissue) and supporting bone, nerve, and vascular structures. These programs include courses in periodontium pathology, diagnostic procedures and equipment, occlusion, nutritional aspects of periodontology, surgical treatments, and patient care and management.

Illustrative example(s)

- periodontics (Cert., MS, MSc, PhD)
- periodontist (Cert., MS, MSc, PhD)
- periodontology (Cert., MS, MSc, PhD)

Exclusion(s)

- periodontics specialty - residency (See 60.0107-Periodontology residency programs)

51.0511 Prosthodontics/prosthodontology (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the advanced study of the restoration and maintenance of teeth, oral function, and aesthetic form through the use of single or compound materials, structures, and artificial devices. These programs include courses in implant dentistry, surgical procedures, denture design and fabrication, fixed and removable prosthodontics, restorative techniques, occlusion therapy and devices, geriatric dentistry, cosmetic dentistry, and temporomandibular joint dysfunction.

Illustrative example(s)

- prosthetic dentistry (Cert., MS, MSc, PhD)
- prosthodontics (Cert., MS, MSc, PhD)
- prosthodontology (Cert., MS, MSc, PhD)

Exclusion(s)

- implantology (Cert., MS, MSc, PhD) (See 51.0514-Implantology/implant dentistry (Cert., MS, MSc, PhD))
- prosthodontics specialty - residency (See 60.0108-Prosthodontics residency programs)
- temporomandibular disorders and orofacial pain (See 51.1404-Temporomandibular disorders and orofacial pain (Cert., MS, MSc, PhD))

51.0512 Digital dentistry (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the use of digital and CAD/CAM technology in dental treatment. These programs include courses in digital diagnostic and treatment planning techniques, CAD/CAM restoration, and patient management.

Illustrative example(s)

- digital dentistry (Cert., MS, MSc, PhD)

Exclusion(s)

- CAD technology (See 15.1302-CAD/CADD drafting and/or design technology/technician)
- CAM (See 15.0613-Manufacturing engineering technology/technician)

51.0513 Geriatric dentistry (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on the advanced study of the therapeutic and preventive care of the oral health of geriatric patients. These programs include courses in aging, preventive medicine, diet therapy and counseling, geriatric restorative procedures, pulp therapy, trauma management, anesthesia, treatment planning, and patient management.

Illustrative example(s)

- dental geriatrics (Cert., MS, MSc, PhD)
- geriatric dentistry (Cert., MS, MSc, PhD)
- gerodontics (Cert., MS, MSc, PhD)
- gerodontics (Cert., MS, MSc, PhD)

Exclusion(s)

- advanced general dentistry (See 51.0502-Advanced general dentistry (Cert., MS, MSc, PhD))
- geriatric medicine - fellowship (See 61.0203-Geriatric medicine fellowship programs)

51.0514 Implantology/implant dentistry (Cert., MS, MSc, PhD)

This instructional program class comprises any program that focuses on dental implantology. These programs include courses in diagnosis and treatment planning, surgical protocols, implant placement, sinus grafting, guided bone regeneration, soft tissue grafting, prosthetic protocols, prosthesis design, and aftercare.

Illustrative example(s)

- dental implantology (Cert., MS, MSc, PhD)
- implant dentistry (Cert., MS, MSc, PhD)
- implantology (Cert., MS, MSc, PhD)
- oral implantology (Cert., MS, MSc, PhD)

Exclusion(s)

- prosthodontics specialty - residency (See 60.0108-Prosthodontics residency programs)
- prosthodontology (Cert., MS, MSc, PhD) (See 51.0511-Prosthodontics/prosthodontology (Cert., MS, MSc, PhD))

51.0599 Advanced/graduate dentistry and oral sciences, other (Cert., MS, MSc, PhD)

This instructional program class comprises any program not listed above that relates to Advanced/graduate dentistry and oral sciences (Cert., MS, MSc, PhD).

Illustrative example(s)

- other advanced/graduate dentistry and oral sciences (Cert., MS, MSc, PhD)

Exclusion(s)

- gerodontology (Cert., MS, MSc, PhD) (See 51.0513-Geriatric dentistry (Cert., MS, MSc, PhD))

51.06 Dental support services and allied professions

This subseries comprises instructional program classes 51.0601 to 51.0699.

51.0601 Dental assisting/assistant

This instructional program class comprises any program that prepares individuals to provide patient care, take dental radiographs (X-ray photographs), prepare patients and equipment for dental procedures, and discharge office administrative functions under the supervision of dentists and dental hygienists. These programs include courses in medical record keeping, general office duties, reception and patient intake, scheduling, equipment maintenance and sterilization, basic radiography, pre-operative and postoperative patient care and instruction, chairside assisting, taking tooth and mouth impressions, and supervised practice.

Illustrative example(s)

- certified dental assistant (CDA)
- dental assistant
- dental assisting
- dental nurse
- dental nursing
- registered dental assistant (RDA)

Exclusion(s)

- dental hygienist (See 51.0602-Dental hygiene/hygienist)
- dental office administration (See 51.0705-Medical office management/administration)
- dental receptionist (See 51.0712-Medical reception/receptionist)
- dental secretarial (See 51.0716-Medical administrative/executive assistant and medical secretary)
- dental technician (See 51.0603-Dental laboratory technology/technician)

51.0602 Dental hygiene/hygienist

This instructional program class comprises any program that prepares individuals to clean teeth and apply preventive materials; provide oral health education and treatment counselling to patients; identify oral pathologies and injuries; and manage dental hygiene practices. These programs include courses in dental anatomy, microbiology, and pathology; dental hygiene theory and techniques; cleaning equipment operation and maintenance; dental materials; radiology; patient education and counselling; office management; supervised clinical training; and professional standards.

Illustrative example(s)

- dental hygiene
- dental hygienist
- registered dental hygienist (RDH)

Exclusion(s)

- dental assistant (See 51.0601-Dental assisting/assistant)
- dental therapy (See 51.0699-Dental support services and allied professions, other)

51.0603 Dental laboratory technology/technician

This instructional program class comprises any program that prepares individuals, under the supervision of dentists, to design and construct dental prostheses such as caps, crowns, bridges, dentures, splints, and orthodontic appliances. These programs include courses in dental anatomy, dental materials, ceramics technology, impressions, complete dentures, partial dentures, orthodontics, crowns and bridges, sculpture, bonding and assembly techniques, and equipment operation.

Illustrative example(s)

- dental laboratory technician
- dental laboratory technology
- dental technician
- dental technology
- denturist
- denturology

Exclusion(s)

- dental assistant (See 51.0601-Dental assisting/assistant)
- dental hygienist (See 51.0602-Dental hygiene/hygienist)

51.0699 Dental support services and allied professions, other

This instructional program class comprises any program not listed above that relates to Dental support services and allied professions.

Illustrative example(s)

- dental therapy
- orthodontic assistant
- other dental support services and allied professions

Exclusion(s)

- dental assistant (See 51.0601-Dental assisting/assistant)
- dental hygienist (See 51.0602-Dental hygiene/hygienist)
- orthodontics (Cert., MS, MSc, PhD) (See 51.0508-Orthodontics/orthodontology (Cert., MS, MSc, PhD))

51.07 Health and medical administrative services

This subseries comprises instructional program classes 51.0701 to 51.0799.

51.0701 Health/health care administration/management

This instructional program class comprises any program that prepares individuals to develop, plan, and manage health care operations and services within health care facilities and across health care systems. These programs include courses in planning, business management, financial management, public relations, human resources management, health care systems operation and management, health care resource allocation and policy making, health laws and regulations, and applications to specific types of health care services.

Illustrative example(s)

- health administration
- health care administration
- health care management
- health management
- medical administration

Exclusion(s)

- health policy (See 44.0503-Health policy analysis)
- health services administration (See 51.2211-Health services administration)
- healthcare system leadership and innovation (See 51.0722-Healthcare innovation)
- hospital administration (See 51.0702-Hospital and health care facilities administration/management)
- long term care administration (See 51.0718-Long term care administration/management)
- medical administrative assistant (See 51.0716-Medical administrative/executive assistant and medical secretary)
- medical office administration (See 51.0705-Medical office management/administration)

51.0702 Hospital and health care facilities administration/management

This instructional program class comprises any program that prepares individuals to apply managerial principles to the administration of hospitals, clinics, nursing homes, and other health care facilities. These programs include courses in facilities planning, building and operations management, business management, financial management and insurance, fund-raising and marketing, public relations, human resources management and labour relations, health care facilities operations, principles of health care delivery, and applicable laws and regulations.

Illustrative example(s)

- health care facilities administration
- health care facilities management
- hospital administration
- hospital management
- management of health care facilities

Exclusion(s)

- health care administration (See 51.0701-Health/health care administration/management)
- health services administration (See 51.2211-Health services administration)
- healthcare system leadership and innovation (See 51.0722-Healthcare innovation)
- long term care administration (See 51.0718-Long term care administration/management)
- medical administrative assistant (See 51.0716-Medical administrative/executive assistant and medical secretary)
- nursing home administration (See 51.0718-Long term care administration/management)

51.0703 Health unit coordinator/ward clerk

This instructional program class comprises any program that prepares individuals, under the supervision of nurses or ward supervisors, to perform routine administrative and reception duties in a patient care unit within a hospital or other health care facility. These programs include courses in receiving and directing visitors, transcribing medical and nursing orders, preparing requisition forms, scheduling patient appointments and procedures, monitoring patients and personnel, and interpersonal skills.

Illustrative example(s)

- health unit clerk
- health unit coordinator
- hospital unit clerk
- medical unit clerk
- nursing unit clerk
- ward clerk

Exclusion(s)

- medical clerk (See 51.0710-Medical office assistant/specialist)
- medical secretary (See 51.0716-Medical administrative/executive assistant and medical secretary)
- office clerk (See 52.0408-General office occupations and clerical services)

51.0704 Health unit manager/ward supervisor

This instructional program class comprises any program that prepares individuals, under the supervision of nursing or medical service administrators, to supervise and coordinate the operations of one or more patient care units in hospitals or other health care facilities. These programs include courses in planning and initiating administrative procedures, personnel supervision, interpersonal skills, general and/or specialized health care operations and procedures, and consultation with other medical, nursing, and administrative team members.

Illustrative example(s)

- health unit manager
- health unit supervisor
- ward supervisor

Exclusion(s)

- health unit coordinator (See 51.0703-Health unit coordinator/ward clerk)

51.0705 Medical office management/administration

This instructional program class comprises any program that prepares individuals to manage the specialized business functions of a medical or clinical office. These programs include courses in business office operations, business and financial record keeping, personnel supervision, medical and health care policy administration, conference planning, scheduling and coordination, public relations, and applicable laws and regulations.

Illustrative example(s)

- dental office administration
- dental office management
- health office administration
- health office management
- medical office administration
- medical office management
- medical office manager

Exclusion(s)

- hospital administration (See 51.0702-Hospital and health care facilities administration/management)
- medical administration (See 51.0701-Health/health care administration/management)
- medical office assistant (See 51.0710-Medical office assistant/specialist)
- medical secretary (See 51.0716-Medical administrative/executive assistant and medical secretary)
- office management (See 52.0204-Office management and supervision)
- veterinary office management (See 01.8202-Veterinary office management/administration)

51.0706 Health information/medical records administration/administrator

This instructional program class comprises any program that prepares individuals to plan, design, and manage systems, processes, and facilities used to collect, store, secure, retrieve, analyse, and transmit medical records and other health information used by clinical professionals and health care organizations. These programs include courses in the principles and basic content of the biomedical and clinical sciences; information technology and applications; data and database management; clinical research methodologies; health information resources and systems; office management; legal requirements; and professional standards.

Illustrative example(s)

- health information administration
- health information administrator
- health information management
- health information science
- health records administration
- medical archive management
- medical records administration
- medical records administrator
- medical records management

Exclusion(s)

- archival management (See 25.0103-Archives/archival administration)
- disease registry management (See 51.0721-Disease registry data management)
- information science (See 11.0401-Information science/studies)
- management information systems (See 52.1201-Management information systems, general)
- medical clerk (See 51.0710-Medical office assistant/specialist)
- medical records technology (See 51.0707-Health information/medical records technology/technician)
- medical secretary (See 51.0716-Medical administrative/executive assistant and medical secretary)

51.0707 Health information/medical records technology/technician

This instructional program class comprises any program that prepares individuals, under the supervision of health information administrators and other professionals, to construct medical records and clinical databases, perform manipulations on retrieved data, control the security and quality of records, and supervise data entry and technical maintenance personnel. These programs include courses in clinical and biomedical science data and information requirements; database management; data coding and validation; information security; quality control; health information content and structure; medical business procedures; and legal requirements.

Illustrative example(s)

- health information technician
- health information technology
- health records technician
- health records technology
- medical archives technology
- medical records technician
- medical records technology

Exclusion(s)

- healthcare information privacy assurance and security (See 51.0723-Healthcare information privacy assurance and security)
- library techniques (See 25.0301-Library and archives assisting)
- medical records administration (See 51.0706-Health information/medical records administration/administrator)
- medical secretary (See 51.0716-Medical administrative/executive assistant and medical secretary)
- records management (See 25.0103-Archives/archival administration)

51.0708 Medical transcription/transcriptionist

This instructional program class comprises any program that prepares individuals to execute verbatim medical conference minutes, medical reports, and medical orders. These programs include courses in dictation and simultaneous recording, analysis of notes and visual evidence, medical terminology, data processing applications and skills, formal medical report and correspondence formats, professional standards, and applicable laws and regulations.

Illustrative example(s)

- medical dictatypist
- medical stenographer
- medical transcription
- medical transcriptionist

Exclusion(s)

- medical clerk (See 51.0710-Medical office assistant/specialist)
- medical secretary (See 51.0716-Medical administrative/executive assistant and medical secretary)

51.0709 Medical office computer specialist/assistant

This instructional program class comprises any program that prepares individuals to apply computer programming, troubleshooting, and information technology skills to the installation, maintenance, and upgrade of standard, customized, or proprietary medical software and associated hardware. These programs include courses in computer programming, systems analysis, networking, telecommunications, medical records and informatics software applications, information technology, systems administration, computer security, and applicable regulations and certifications or licenses.

Illustrative example(s)

- medical office computer assistant
- medical office computer specialist

Exclusion(s)

- computer programming (See 11.0201-Computer programming/programmer, general)
- computer software technician (See 15.1204-Computer software technology/technician)
- medical informatics (See 51.2706-Medical informatics)
- medical secretary (See 51.0716-Medical administrative/executive assistant and medical secretary)

51.0710 Medical office assistant/specialist

This instructional program class comprises any program that prepares individuals, under the supervision of office managers and other professionals, to perform routine administrative duties in a medical, clinical, or health care facility/system office environment. These programs include courses in general office skills, data processing, office equipment operation, principles of medical record keeping and business regulations, medical/clinical office procedures, and communications skills.

Illustrative example(s)

- clinic office assistant
- doctor's office assistant
- medical clerk
- medical office assistant

Exclusion(s)

- medical administration (See 51.0701-Health/health care administration/management)
- medical office administration (See 51.0705-Medical office management/administration)
- medical records technology (See 51.0707-Health information/medical records technology/technician)
- medical secretary (See 51.0716-Medical administrative/executive assistant and medical secretary)

51.0711 Medical/health management and clinical assistant/specialist

This instructional program class comprises any program that prepares individuals, under the supervision of physicians, nurses, or other health care professionals, to perform medical office or facilities management services and perform one or more clinical allied health specialties. These programs include courses in health care management; medical office administration; medical laws and regulations; training in one or more diagnostic, treatment, therapy, or laboratory specialties at the assistant level or above; and applicable professional standards and ethics.

Illustrative example(s)

- combined medical services management and clinical assistant
- combined medical services management and clinical specialist
- medical/health management and clinical assistant/specialist

Exclusion(s)

- health care administration (See 51.0701-Health/health care administration/management)
- medical assistant (See 51.0801-Medical/clinical assistant)
- medical office administration (See 51.0705-Medical office management/administration)
- medical secretary (See 51.0716-Medical administrative/executive assistant and medical secretary)
- physician assistant (See 51.0912-Physician assistant/associate)

51.0712 Medical reception/receptionist

This instructional program class comprises any program that prepares individuals, under the supervision of office managers, nurses, or physicians, to provide customer service, visitor reception, and patient intake and discharge services. These programs include courses in medical office and health care facility procedures, medical terminology, interpersonal skills, record keeping, customer service, telephone skills, data entry, interpersonal communications skills, and applicable policies and regulations.

Illustrative example(s)

- dental reception
- dental receptionist
- medical office receptionist
- medical receptionist

Exclusion(s)

- medical secretary (See 51.0716-Medical administrative/executive assistant and medical secretary)
- receptionist (See 52.0406-Receptionist)
- veterinary receptionist (See 01.8203-Veterinary reception/receptionist)

51.0713 Medical insurance coding specialist/coder

This instructional program class comprises any program that prepares individuals to perform specialized data entry, classification, and record keeping procedures related to medical diagnostic, treatment, billing, and insurance documentation. These programs include courses in medical records and insurance software applications, basic anatomy and physiology, medical terminology, fundamentals of medical science and treatment procedures, data classification and coding, data entry skills, and regulations relating to Medicare and insurance documentation.

Illustrative example(s)

- medical insurance coder
- medical insurance coding
- medical insurance coding specialist

Exclusion(s)

- health/medical claims examiner (See 51.0715-Health/medical claims examiner)

- insurance (See 52.1701-Insurance)
- medical insurance billing (See 51.0714-Medical insurance specialist/medical biller)

51.0714 Medical insurance specialist/medical biller

This instructional program class comprises any program that prepares individuals to perform and manage the medical and health insurance operations in a medical office, health care facility, health maintenance organization, or insurance provider. These programs include courses in health and medical insurance processes; health insurance laws, policies, and regulations; insurance records and paperwork administration; insurance office administration; health/medical insurance software applications; personnel supervision; business mathematics; billing and collection procedures; medical terminology; and communications skills.

Illustrative example(s)

- medical biller
- medical billing
- medical insurance biller
- medical insurance billing
- medical insurance billing specialist

Exclusion(s)

- health/medical claims examiner (See 51.0715-Health/medical claims examiner)
- insurance (See 52.1701-Insurance)
- medical insurance coding (See 51.0713-Medical insurance coding specialist/coder)

51.0715 Health/medical claims examiner

This instructional program class comprises any program that prepares individuals to perform specialized investigatory, analytical, evaluative, and consultative functions related to health/medical insurance operations and their regulation. These programs include courses in health and medical insurance processes and procedures; health insurance laws and regulations; health care industry laws; record keeping; analytic and investigatory techniques; evaluation methods; field operations methods; office procedures; related software applications; oral and written communications skills; interviewing techniques; and professional standards and ethics.

Illustrative example(s)

- health claims examiner
- health insurance claims examiner
- health/medical claims examiner
- medical claims examiner
- medical insurance claims examiner

Exclusion(s)

- insurance (See 52.1701-Insurance)
- medical insurance billing (See 51.0714-Medical insurance specialist/medical biller)
- medical insurance coding (See 51.0713-Medical insurance coding specialist/coder)

51.0716 Medical administrative/executive assistant and medical secretary

This instructional program class comprises any program that prepares individuals to perform the duties of special assistants and personal secretaries for practicing physicians and nurses, health care facilities and services administrators, and other health care professionals. These programs include courses in business and medical communications, medical terminology, principles of health care operations, public relations and interpersonal communications, software applications, record keeping and filing systems, scheduling and meeting planning, applicable policies and regulations, and professional standards and ethics.

Illustrative example(s)

- dental administrative assistant
- dental secretarial

- dental secretary
- medical administrative assistant
- medical executive assistant
- medical secretarial
- medical secretary

Exclusion(s)

- administrative assistant (See 52.0401-Administrative assistant and secretarial science, general)
- executive assistant (See 52.0402-Executive assistant/executive secretary)
- medical administration (See 51.0701-Health/health care administration/management)
- medical office administration (See 51.0705-Medical office management/administration)
- medical office assistant (See 51.0710-Medical office assistant/specialist)
- veterinary administrative assistant (See 01.8204-Veterinary administrative/executive assistant and veterinary secretary)
- veterinary secretary (See 01.8204-Veterinary administrative/executive assistant and veterinary secretary)

51.0717 Medical staff services technology/technician

This instructional program class comprises any program that prepares individuals to perform credentialing, privileging, personnel management, and accreditation compliance services for hospitals and other health care facilities and organizations. These programs include courses in medical staff organization and management, medical terminology, credentialing and re-credentialing, health care accreditation and regulatory standards, health care laws, meeting and negotiation management, and office information systems management.

Illustrative example(s)

- medical staff services technician
- medical staff services technology

51.0718 Long term care administration/management

This instructional program class comprises any program that prepares individuals to apply managerial principles to the administration of nursing homes, assisted living facilities, adult day care, home health services, and other long term care settings and agencies serving the elderly and disabled. These programs include courses in social and clinical aspects of aging, health care delivery systems, nursing home administration, assisted living administration, aging policy and government programs, ethics, business management, financial management, human resource management, marketing, and applicable laws and regulations.

Illustrative example(s)

- adult day care administration
- adult day care management
- assisted living administration
- assisted living management
- home health services administration
- home health services management
- long term care administration
- long term care management
- nursing home administration
- nursing home management

Exclusion(s)

- health care administration (See 51.0701-Health/health care administration/management)
- hospital administration (See 51.0702-Hospital and health care facilities administration/management)

51.0719 Clinical research coordinator

This instructional program class comprises any program that prepares individuals for careers as clinical research administrators or clinical research coordinators where they work under the supervision of a principal investigator

to organize, coordinate and administer clinical research trials. These programs include courses in pharmacology, medical terminology, foundations of clinical research, project management, ethics, research design and data management, and legal and regulatory compliance.

Illustrative example(s)

- clinical research administrator
- clinical research coordinator
- clinical trial research coordination
- clinical trials management

Exclusion(s)

- medical research (MS, MSc, PhD) (See 51.1401-Medical science/scientist (MS, MSc, PhD))
- operations research (See 14.3701-Operations research)
- research administration (See 52.0214-Research administration)
- research and development management (See 52.0210-Research and development management)
- research methodology and quantitative methods (See 45.0102-Research methodology and quantitative methods)

51.0720 Regulatory science/affairs

This instructional program class comprises any program that prepares individuals to manage the regulatory process for companies innovating and developing cutting edge products in science, biotechnology, pharmaceuticals, and medicine. These programs include courses in regulatory affairs, clinical documentation, human and animal subject protection, the US Food and Drug Administration (FDA) regulations or Canadian Food and Drugs Act and Food and Drugs Regulations, data management and analysis, good manufacturing practices, and quality management.

Illustrative example(s)

- regulatory affairs
- regulatory science

Exclusion(s)

- pharmacy regulatory affairs (See 51.2002-Pharmacy administration and pharmacy policy and regulatory affairs (MS, MSc, PhD))
- regulatory law (graduate level) (See 22.0205-Banking, corporate, finance and securities law (LLM, LLD, JSD/SJD))

51.0721 Disease registry data management

This instructional program class comprises any program that prepares individuals to find, interpret, and record demographic and medical information on individuals for healthcare agencies and disease registries. These programs include courses in anatomy, data management, disease registry organization and operations, epidemiology, ethics, fundamentals of disease coding and staging, medical terminology, pathophysiology, pharmacology, physiology, quality management, and statistics.

Illustrative example(s)

- cancer data management
- cancer registry data management
- cancer registry management
- diabetes data management
- diabetes registry data management
- diabetes registry management
- disease registry data management
- disease registry management

Exclusion(s)

- epidemiology (See 26.1309-Epidemiology)
- health information management (See 51.0706-Health information/medical records administration/administrator)
- medical records management (See 51.0706-Health information/medical records administration/administrator)

51.0722 Healthcare innovation

This instructional program class comprises any program that prepares individuals to innovate solutions and lead change within a healthcare organization. These programs include courses in innovation management, medical device development, evidence-based practice, systems thinking, information technology, healthcare policy and finance, organizational change, and leadership.

Illustrative example(s)

- healthcare innovation
- healthcare system leadership and innovation

Exclusion(s)

- health care administration (See 51.0701-Health/health care administration/management)
- hospital administration (See 51.0702-Hospital and health care facilities administration/management)

51.0723 Healthcare information privacy assurance and security

This instructional program class comprises any program that prepares individuals for careers in designing, implementing, and administering comprehensive privacy and security protection programs in all types of healthcare organizations. These programs include courses in health information ethics, healthcare information privacy and security, healthcare compliance, healthcare information security and disaster recovery, and healthcare privacy law.

Illustrative example(s)

- health information privacy assurance
- health information privacy assurance and security
- health information security
- healthcare information privacy assurance
- healthcare information privacy assurance and security
- healthcare information security

Exclusion(s)

- health information technology (See 51.0707-Health information/medical records technology/technician)
- information assurance (See 11.1003-Computer and information systems security/auditing/information assurance)

51.0799 Health and medical administrative services, other

This instructional program class comprises any program not listed above that relates to Health and medical administrative services.

Illustrative example(s)

- disability management
- other health and medical administrative services

51.08 Allied health and medical assisting services

This subseries comprises instructional program classes 51.0801 to 51.0899.

51.0801 Medical/clinical assistant

This instructional program class comprises any program that prepares individuals, under the supervision of physicians, to provide medical office administrative services and perform clinical duties including patient intake and care, routine diagnostic and recording procedures, pre-examination and examination assistance, and the administration of medications and first aid. These programs include courses in basic anatomy and physiology; medical terminology; medical laws and ethics; patient psychology and communications; medical office procedures; and clinical diagnostic, examination, testing, and treatment procedures.

Illustrative example(s)

- clinical assistant
- medical assistant
- medical clinical assistant

Exclusion(s)

- medical office assistant (See 51.0710-Medical office assistant/specialist)
- medical/health management and clinical assistant/specialist (See 51.0711-Medical/health management and clinical assistant/specialist)
- nurse aide (See 51.3902-Nursing assistant/aide and patient care assistant/aide)
- physician assistant (See 51.0912-Physician assistant/associate)

51.0802 Clinical/medical laboratory assistant

This instructional program class comprises any program that prepares individuals, under the supervision of physicians or laboratory scientists or technologists, to perform testing procedures, phlebotomy, and other duties in support of laboratory teams. These programs include courses in clinical procedures, various laboratory tests, laboratory mathematics, computer technology, equipment operation and maintenance, sterilization and safety, communications skills, and interpersonal skills.

Illustrative example(s)

- clinical lab assistant
- clinical laboratory assistant
- medical laboratory assistant

Exclusion(s)

- biology lab technology (See 41.0101-Biology and biotechnology technologies/technicians)
- clinical laboratory science (See 51.1005-Clinical laboratory science/medical technology/technologist)
- clinical laboratory technician (See 51.1004-Clinical/medical laboratory technician)
- medical assistant (See 51.0801-Medical/clinical assistant)

51.0803 Occupational therapist assistant

This instructional program class comprises any program that prepares individuals, under the supervision of occupational therapists, to direct patient participation in skill-enhancing, learning, and motivational tasks; correct or diminish pathologies; and to provide direct health education and promotion services. These programs include courses in human lifespan development, occupational therapy principles and practice skills, treatment planning and implementation, record keeping and documentation, patient education and intervention, activity and program direction, and assistive services management.

Illustrative example(s)

- occupational therapist assistant
- occupational therapy assistant

Exclusion(s)

- occupational health nursing (See 51.3815-Occupational and environmental health nurse/nursing)
- occupational medicine - residency (See 61.2303-Occupational medicine residency programs)

- occupational therapy (See 51.2306-Occupational therapy/therapist)
- physical therapy assistant (See 51.0806-Physical therapy assistant)
- rehabilitation assistant (RA) (See 51.0817-Rehabilitation assistant)
- vocational rehabilitation counselling (See 51.2310-Vocational rehabilitation counselling/counsellor)

51.0805 Pharmacy technician/assistant

This instructional program class comprises any program that prepares individuals, under the supervision of pharmacists, to prepare medications, provide medications and related assistance to patients, and manage pharmacy clinical and business operations. These programs include courses in medical and pharmaceutical terminology; principles of pharmacology and pharmaceuticals; drug identification; pharmacy laboratory procedures; prescription interpretation; patient communication and education; safety procedures; record keeping; measurement and testing techniques; pharmacy business operations; prescription preparation; logistics and dispensing operations; and applicable standards and regulations.

Illustrative example(s)

- pharmacist assistant
- pharmacy assistant
- pharmacy technician
- pharmacy technology

Exclusion(s)

- pharmacology (See 26.1001-Pharmacology)
- pharmacy (See 51.2001-Pharmacy (PharmD, BS, BSc, BPharm))
- pre-pharmacy (See 51.1103-Pre-pharmacy studies)

51.0806 Physical therapy assistant

This instructional program class comprises any program that prepares individuals, under the supervision of a physical therapist, to implement physical therapy treatment care plans, train patients, conduct treatment interventions, use equipment, and observe and record patient progress. These programs include courses in applied anatomy and physiology, behavioural sciences, biomechanics, clinical documentation, clinical pathology, communication, exercise physiology, kinesiology, neuroscience, and professional standards and ethics.

Illustrative example(s)

- physical therapy assistant
- physiotherapist assistant
- physiotherapy assistant

Exclusion(s)

- kinesiology and health science (See 31.0505-Exercise science and kinesiology)
- occupational therapist assistant (See 51.0803-Occupational therapist assistant)
- physical therapist (See 51.2308-Physical therapy/therapist)
- physical therapy aide (See 51.2605-Physical therapy technician/aide)
- physical therapy technician (See 51.2605-Physical therapy technician/aide)
- rehabilitation assistant (RA) (See 51.0817-Rehabilitation assistant)

51.0809 Anesthesiologist assistant

This instructional program class comprises any program that prepares individuals to assist anesthesiologists and nurse anesthetists in developing and implementing patient anesthesia care plans, including pre-operative, surgical theatre, recovery room, and postoperative/intensive care procedures. These programs include courses in patient data collection, catheter insertion, airway management and drug administration, assisting the administration and monitoring of regional and peripheral nerve blockades, support therapy, adjusting anesthetic levels during surgery, interoperative monitoring, postoperative procedures, pain clinics and patient education, and administrative tasks.

Illustrative example(s)

- anaesthetist assistant
- anesthesiologist assistant

Exclusion(s)

- anesthesiology - residency (See 61.0401-Anesthesiology residency programs)
- critical care anesthesiology - fellowship (See 61.0202-Critical care medicine fellowship programs)
- nurse anesthetist (See 51.3804-Nurse anesthetist)
- respiratory therapy assistant (See 51.0812-Respiratory therapy technician/assistant)
- veterinary anesthesiology - residency (See 60.0301-Veterinary anesthesiology residency programs)

51.0810 Emergency care attendant (EMT ambulance)

This instructional program class comprises any program that prepares individuals to assist licensed EMTs, under the supervision of a physician, to prepare and transport ill or injured patients, and to operate emergency vehicles and equipment such as life support units. These programs include courses in first aid and emergency medicine field techniques; patient stabilization and care; medical field communications; equipment operation and maintenance; emergency vehicle operation; and applicable standards and regulations.

Illustrative example(s)

- ambulance attendant
- ambulance technician
- emergency care attendant
- emergency medical care attendant
- emergency medical responder (EMR)
- emergency medical technician (ambulance)
- emergency medical technician - ambulance (EMT-A)

Exclusion(s)

- critical incident response/special police operations (See 43.0119-Critical incident response/special police operations)
- emergency management (See 43.0302-Crisis/emergency/disaster management)
- emergency medical technician (paramedic) (See 51.0904-Emergency medical technology/technician (EMT paramedic))
- pediatric emergency medicine - fellowship (See 61.1908-Pediatric emergency medicine fellowship programs)

51.0811 Pathology/pathologist assistant

This instructional program class comprises any program that prepares individuals, under the supervision of pathologists, to assist in the performance of autopsies, obtaining and preparing surgical specimens, preparing autopsy reports, and interacting with other clinicians, officials, and individuals. These programs include courses in anatomy; physiology; medical terminology; general, systemic, forensic, and pediatric pathology; autopsy procedures; surgical technique; medical photography; tissue preparation; record keeping and laboratory administration; interpersonal skills; and applicable standards and regulations.

Illustrative example(s)

- pathologist assistant
- pathology assistant
- pathology technician

Exclusion(s)

- pathology - residency (See 61.1801-Combined anatomic and clinical pathology residency programs)
- pathology (See 26.0910-Pathology/experimental pathology)
- speech-language pathology assistant (See 51.0816-Speech-language pathology assistant)

51.0812 Respiratory therapy technician/assistant

This instructional program class comprises any program that prepares individuals to administer general respiratory care procedures under the supervision of respiratory therapists in a variety of clinical settings. These programs include courses in patient data collection and monitoring, airway management, installation of nebulizers and other respiratory assistance devices, application and monitoring of breathing gases, equipment operation and maintenance, safety and sanitation procedures, and applicable regulations.

Illustrative example(s)

- respiratory therapist assistant
- respiratory therapy assistant
- respiratory therapy technician

Exclusion(s)

- anesthesiologist assistant (See 51.0809-Anesthesiologist assistant)
- nurse anesthetist (See 51.3804-Nurse anesthetist)
- respiratory technology (See 51.0908-Respiratory care therapy/therapist)
- respiratory therapist (See 51.0908-Respiratory care therapy/therapist)

51.0813 Chiropractic assistant/technician

This instructional program class comprises any program that prepares individuals, under the supervision of a chiropractor, to provide patient management, examination, and treatment services. These programs include courses in the principles and procedures of chiropractic; radiographic X-ray procedures and techniques; X-ray film analysis and media studies; orthopedic and neurological testing; clinical laboratory procedures; patient management and education; office administrative skills; and applicable laws and regulations.

Illustrative example(s)

- chiropractic assistant
- chiropractic technician

Exclusion(s)

- doctor of chiropractic medicine (DC) (See 51.0101-Chiropractic (DC))
- medical assistant (See 51.0801-Medical/clinical assistant)
- medical office assistant (See 51.0710-Medical office assistant/specialist)

51.0814 Radiologist assistant

This instructional program class comprises any program that prepares individuals, under the supervision of a physician, to perform patient assessment, patient management, selected imaging procedures and to make initial observations of diagnostic images. These programs include courses in radiologic procedures and techniques, cross sectional anatomy, pharmacology, pathophysiology, patient assessment, patient care and management, and radiation biology.

Illustrative example(s)

- radiologist assistant

Exclusion(s)

- medical radiation technologist (See 51.0911-Medical radiation technologist/radiographer)
- radiation protection/health physics technician (See 51.0916-Radiation protection/health physics technician)
- radiation therapist (See 51.0907-Radiation therapist/therapeutic radiographer)

51.0815 Lactation consultant

This instructional program class comprises any program that prepares individuals to provide lactation management services and breastfeeding support to women, and to work as a lactation consultant in a variety of clinical settings. These programs include courses in anatomy and physiology of lactation, nutrition, breastfeeding

techniques and technologies, common concerns and solutions, management of special situations, breastfeeding instruction, professional and legal concerns, and advocacy.

Illustrative example(s)

- lactation consultant
- lactation counsellor
- lactation education
- lactation management

51.0816 Speech-language pathology assistant

This instructional program class comprises any program that prepares individuals, under the supervision of speech-language pathologists, to assist in the provision of speech-language pathology services to individuals of all ages, including screenings and assessments, following treatment plans or protocols, documenting and reporting patient performance, performing checks and maintenance of equipment, and providing support in research projects. These programs include courses in speech and language development, phonetics, childhood and adult communication disorders, speech and hearing screening, and clinical procedures in speech-language pathology.

Illustrative example(s)

- communicative disorders assistant
- speech-language pathology assistant
- speech-language therapy assistant

Exclusion(s)

- child speech-language disorders (See 51.0299-Communication disorders sciences and services, other)
- occupational therapy and speech-language therapy assistant (See 51.0817-Rehabilitation assistant)
- pathology assistant (See 51.0811-Pathology/pathologist assistant)
- speech-language pathology (See 51.0203-Speech-language pathology/pathologist)

51.0817 Rehabilitation assistant^{CAN}

This instructional program class comprises any program that prepares individuals to cross train in at least two of occupational therapist assistant, physical therapist assistant, and speech-language pathology assistant, in order to implement therapies, direct and train patients, and provide services under the supervision of an occupational therapist, physical therapist, or speech-language pathologist. These programs include courses in the principles, procedures and practice skills of occupational therapy, physical therapy, and speech-language pathology; applied anatomy and physiology; normal functional movement; disabling conditions; psychology; infection control; wound and injury care; documentation and record keeping; and ethics and professional practices.

Illustrative example(s)

- occupational therapy and physical therapy assistant
- occupational therapy and speech-language therapy assistant
- OTA/PTA
- physical therapy and speech-language therapy assistant
- physiotherapy and occupational therapy assistant
- rehab assistant
- rehabilitation assistant (RA)
- rehabilitation therapist assistant
- rehabilitation therapy assistant
- therapy assistant - occupational therapy and physiotherapy

Exclusion(s)

- occupational therapist assistant (See 51.0803-Occupational therapist assistant)
- pediatric rehabilitation medicine - fellowship (See 61.2003-Pediatric rehabilitation medicine fellowship programs)

- physical therapy assistant (See 51.0806-Physical therapy assistant)
- rehabilitation aide (See 51.2604-Rehabilitation aide)
- rehabilitation science (See 51.2314-Rehabilitation science)
- rehabilitation therapist (See 51.2300-Rehabilitation and therapeutic professions, general)
- speech-language pathology assistant (See 51.0816-Speech-language pathology assistant)

51.0899 Allied health and medical assisting services, other

This instructional program class comprises any program not listed above that relates to Allied health and medical assisting services.

Illustrative example(s)

- audiometric technician
- industrial audiometric technician
- other allied health and medical assisting services

51.09 Allied health diagnostic, intervention and treatment professions

This subseries comprises instructional program classes 51.0901 to 51.0999.

51.0901 Cardiovascular technology/technologist

This instructional program class comprises any program that prepares individuals to perform invasive, non-invasive, and peripheral examinations of the cardiovascular system at the request of physicians to aid in diagnoses and therapeutic treatments. These programs include courses in reviewing and recording patient histories and clinical data; patient care; investigative and examination procedures; diagnostic procedures; data analysis and documentation; physician consultation; equipment operation and monitoring; and professional standards and ethics.

Illustrative example(s)

- cardiology technician
- cardiology technologist
- cardiology technology
- cardiovascular technician
- cardiovascular technologist
- cardiovascular technology

Exclusion(s)

- cardiovascular disease - fellowship (See 61.0804-Cardiovascular disease fellowship programs)
- cardiovascular science (See 26.0907-Cardiovascular disease-fellowship)
- clinical cardiac electrophysiology - fellowship (See 61.0805-Clinical cardiac electrophysiology fellowship programs)
- electrocardiograph technician (See 51.0902-Electrocardiograph technology/technician)

51.0902 Electrocardiograph technology/technician

This instructional program class comprises any program that prepares individuals, under the supervision of physicians and nurses, to administer EKG and ECG diagnostic examinations and report results to the treatment team. These programs include courses in basic anatomy and physiology, the cardiovascular system, medical terminology, cardiovascular medications and effects, patient care, EKG and ECG administration, equipment operation and maintenance, interpretation of cardiac rhythm, patient record management, and professional standards and ethics.

Illustrative example(s)

- ECG technician
- ECG technologist
- ECG technology
- EKG technician

- electrocardiograph technician
- electrocardiograph technology

Exclusion(s)

- cardiovascular technician (See 51.0901-Cardiovascular technology/technologist)

51.0903 Electroneurodiagnostic/electroencephalographic technology/technologist

This instructional program class comprises any program that prepares individuals, under the supervision of a physician, to study and record electrical activity in the brain and nervous system for purposes of patient monitoring and supporting diagnoses. These programs include courses in patient communication and care; taking and abstracting patient histories; application of recording electrodes; electroencephalogram (EEG), evoked potential (EP), and polysomnogram (PSG) equipment operation and procedural techniques; and data recording and documentation.

Illustrative example(s)

- EEG technician
- electroencephalographic technician
- electroencephalographic technologist
- electroencephalographic technology
- electroneurodiagnostic technologist
- electroneurodiagnostic technology

51.0904 Emergency medical technology/technician (EMT paramedic)

This instructional program class comprises any program that prepares individuals, under the remote supervision of physicians, to recognize, assess, and manage medical emergencies in prehospital settings and to supervise ambulance personnel. These programs include courses in basic, intermediate, and advanced EMT procedures; emergency surgical procedures; medical triage; rescue operations; crisis scene management and personnel supervision; equipment operation and maintenance; patient stabilization, monitoring, and care; drug administration; identification and preliminary diagnosis of diseases and injuries; communication and computer operations; basic anatomy, physiology, pathology, and toxicology; and professional standards and regulations.

Illustrative example(s)

- emergency medical technician (paramedic)
- emergency medical technician - paramedic (EMT-P)
- emergency medical technology - paramedic (EMT-P)
- paramedic

Exclusion(s)

- ambulance attendant (See 51.0810-Emergency care attendant (EMT ambulance))
- emergency medical technician (ambulance) (See 51.0810-Emergency care attendant (EMT ambulance))
- emergency medicine - residency (See 61.0601-Emergency medicine residency programs)
- pediatric emergency medicine - fellowship (See 61.1908-Pediatric emergency medicine fellowship programs)

51.0905 Nuclear medical technology/technologist

This instructional program class comprises any program that prepares individuals, under the supervision of physicians, to employ radioactive and stable nuclides in diagnostic evaluations and therapeutic applications while monitoring for patient health and safety. These programs include courses in nuclear physics, health physics, instrumentation and statistics, biochemistry, immunology, radiopharmacology, radiation biology, clinical nuclear medicine, radionuclide therapy, computer applications, safety regulations, equipment operation, quality control, laboratory procedures, taking patient histories, patient evaluation and monitoring, emergency first aid, administration and record keeping, and personnel supervision.

Illustrative example(s)

- nuclear medical technologist
- nuclear medical technology
- nuclear medicine radiographer
- nuclear medicine technician
- nuclear medicine technologist
- nuclear medicine technology

Exclusion(s)

- medical radiation technologist (See 51.0911-Medical radiation technologist/radiographer)
- medical radiologic technology (See 51.0911-Medical radiation technologist/radiographer)
- nuclear engineering (See 14.2301-Nuclear engineering)
- nuclear engineering technology (See 15.1401-Nuclear engineering technology/technician)
- nuclear medicine - residency (See 61.1201-Nuclear medicine residency programs)
- nuclear radiology - fellowship (See 61.2608-Nuclear radiology fellowship programs)
- radiation biology (See 26.0209-Radiation biology/radiobiology)
- radiation therapist (See 51.0907-Radiation therapist/therapeutic radiographer)

51.0906 Perfusion technology/perfusionist

This instructional program class comprises any program that prepares individuals, under the supervision of physicians and nurses, to operate extracorporeal circulation and autotransfusion equipment during medical procedures and surgeries where the support or temporary replacement of a patient's own respiratory or circulatory system is required. These programs include courses in equipment selection and operation; physician and medical team consultation; patient condition monitoring; procedural techniques; and principles of respiratory and circulatory physiology.

Illustrative example(s)

- perfusion technology
- perfusionist

51.0907 Radiation therapist/therapeutic radiographer

This instructional program class comprises any program that prepares individuals to administer prescribed courses of radiation treatment, manage patients undergoing radiation therapy, and maintain pertinent records. These programs include courses in applied anatomy and physiology, oncologic pathology, radiation biology, radiation oncology procedures and techniques, radiation dosimetry, tumour localization, treatment planning, patient communication and management, data collection, record keeping, and applicable standards and regulations.

Illustrative example(s)

- radiation oncology technology
- radiation therapist
- radiation therapy
- radiotherapist
- radiotherapy
- therapeutic radiographer

Exclusion(s)

- mammography (See 51.0919-Mammography technology/technician)
- medical radiation technologist (See 51.0911-Medical radiation technologist/radiographer)
- medical radiation technology (See 51.0911-Medical radiation technologist/radiographer)
- medical radiologic science (See 51.0999-Allied health diagnostic, intervention and treatment professions, other)
- medical radiologic technology (See 51.0911-Medical radiation technologist/radiographer)
- radiation oncology - residency (See 61.2501-Radiation oncology residency programs)

- radiologist assistant (See 51.0814-Radiologist assistant)
- therapeutic radiologic physics - residency (See 61.2611-Therapeutic radiologic physics residency programs)
- X-ray technician (See 51.0911-Medical radiation technologist/radiographer)

51.0908 Respiratory care therapy/therapist

This instructional program class comprises any program that prepares individuals, under the supervision of physicians, to assist in developing respiratory care plans, administer respiratory care procedures, supervise personnel and equipment operation, maintain records, and consult with other health care team members. These programs include courses in the applied basic biomedical sciences; anatomy, physiology, and pathology of the respiratory system; clinical medicine; therapeutic procedures; clinical expressions; data collection and record keeping; patient communication; equipment operation and maintenance; personnel supervision; and procedures for special population groups.

Illustrative example(s)

- inhalation therapy
- respiratory care therapist
- respiratory care therapy
- respiratory technologist
- respiratory technology
- respiratory therapist
- respiratory therapy

Exclusion(s)

- respiratory therapy assistant (See 51.0812-Respiratory therapy technician/assistant)
- respiratory therapy technician (See 51.0812-Respiratory therapy technician/assistant)

51.0909 Surgical technology/technologist

This instructional program class comprises any program that prepares individuals, under the supervision of physicians and surgical nurses, to maintain, monitor, and enforce the sterile field and adherence to aseptic technique by pre-operative, surgical team, and postoperative personnel. These programs include courses in instrument and equipment sterilization and handling; surgical supplies management; wound exposure and closure; surgical computer and robot operation and monitoring; maintenance of hemostasis; and patient and team scrubbing.

Illustrative example(s)

- operating room technician
- operating room technologist
- surgical technician
- surgical technologist
- surgical technology

Exclusion(s)

- medical assistant (See 51.0801-Medical/clinical assistant)
- sterile supply technician (See 51.1012-Sterile processing technology/technician)
- surgical nursing (See 51.3812-Perioperative/operating room and surgical nurse/nursing)

51.0910 Diagnostic medical sonography/sonographer and ultrasound technician

This instructional program class comprises any program that prepares individuals, under the supervision of physicians, to utilize medical ultrasound techniques to gather sonographic data used to diagnose a variety of conditions and diseases. These programs include courses in obtaining, reviewing, and integrating patient histories and data; patient instruction and care; anatomic, physiologic and pathologic data recording; sonographic data processing; sonography equipment operation; and professional standards and ethics.

Illustrative example(s)

- diagnostic medical sonographer
- diagnostic medical sonography
- medical sonography
- medical ultrasound technology
- sonography
- ultrasonography
- ultrasound technician
- ultrasound technology
- vascular sonography

Exclusion(s)

- acoustical physics (See 40.0809-Acoustics)
- X-ray technician (See 51.0911-Medical radiation technologist/radiographer)

51.0911 Medical radiation technologist/radiographer

This instructional program class comprises any program that prepares individuals, under the supervision of physicians, to provide medical imaging services to patients and attending health care professionals. These programs include courses in applied anatomy and physiology, patient positioning, radiographic technique, radiation biology, safety and emergency procedures, equipment operation and maintenance, quality assurance, patient education, and medical imaging/radiologic services management.

Illustrative example(s)

- diagnostic radiographer
- medical radiation technologist
- medical radiation technology
- radiographer
- radiologic technology
- radiological technologist
- radiology technologist
- X-ray technician
- X-ray technology

Exclusion(s)

- combined laboratory and X-ray technology (See 51.0924-Combined laboratory and X-ray technology)
- magnetic resonance imaging technology (See 51.0920-Magnetic resonance imaging (MRI) technology/technician)
- magnetic resonance radiographer (See 51.0920-Magnetic resonance imaging (MRI) technology/technician)
- mammographic radiographer (See 51.0919-Mammography technology/technician)
- mammography (See 51.0919-Mammography technology/technician)
- nuclear medicine radiographer (See 51.0905-Nuclear medical technology/technologist)
- radiation protection/health physics technician (See 51.0916-Radiation protection/health physics technician)
- radiation therapist (See 51.0907-Radiation therapist/therapeutic radiographer)
- radiologic science (See 51.0999-Allied health diagnostic, intervention and treatment professions, other)
- radiologist assistant (See 51.0814-Radiologist assistant)
- therapeutic radiographer (See 51.0907-Radiation therapist/therapeutic radiographer)

51.0912 Physician assistant/associate

This instructional program class comprises any program that prepares individuals to practice medicine, including diagnoses and treatment therapies, under the supervision of a physician. These programs include courses in the basic medical and clinical sciences and specialized preparation in fields such as family medicine; pediatrics; obstetrics; gynecology; general surgery; psychiatry; behavioural medicine; the delivery of health care services to homebound patients, rural populations, underserved populations; and community health services.

Illustrative example(s)

- physician assistant
- physician associate

Exclusion(s)

- medical assistant (See 51.0801-Medical/clinical assistant)
- medical office assistant (See 51.0710-Medical office assistant/specialist)
- pre-physician assistant (See 51.1111-Pre-physician assistant studies)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.0913 Athletic training/trainer

This instructional program class comprises any program that prepares individuals to work in consultation with, and under the supervision of physicians to prevent and treat sports injuries and associated conditions. These programs include courses in the identification, evaluation, and treatment of athletic injuries and illnesses; first aid and emergency care; therapeutic exercise; anatomy and physiology; exercise physiology; kinesiology and biomechanics; nutrition; sports psychology; personal and community health; knowledge of various sports and their biomechanical and physiological demands; and applicable professional standards and regulations.

Illustrative example(s)

- athletic therapist
- athletic therapy
- athletic trainer
- athletic training
- sports injury therapist

Exclusion(s)

- athletic coach (See 31.0501-Sports, kinesiology, and physical education/physical fitness, general)
- exercise physiology (See 26.0908-Exercise physiology)
- kinesiology (See 31.0505-Exercise science and kinesiology)
- physical education teacher (See 13.1314-Physical education teaching and coaching)
- physical therapy (See 51.2308-Physical therapy/therapist)

51.0914 Gene/genetic therapy

This instructional program class comprises any program that focuses on the application of genetics to the therapeutic treatment of diseases and inherited abnormalities through the targeted modification of gene expression, and prepares individuals to administer genetic therapies. These programs include courses in medical genetics, genome analysis, pharmacology of gene transfer, viral vectors, non-viral therapeutic techniques, genetic screening, targeted gene delivery, vector production, safety and quality assurance, clinical trials management, and bioethics.

Illustrative example(s)

- gene therapy
- genetic therapy

Exclusion(s)

- cytogenetics (See 26.0899-Genetics, other)
- genetic counselling (See 51.1509-Genetic counselling/counsellor)
- genetics (See 26.0801-Genetics, general)

51.0915 Cardiopulmonary technology/technologist

This instructional program class comprises any program that prepares individuals, under the supervision of physicians and nurses, to perform both cardiovascular and pulmonary diagnostic and therapeutic procedures. These programs include courses in cardiopulmonary pharmacology; anatomy and physiology of the heart,

peripheral vascular system, and lungs; pulmonary and cardiovascular disease and dysfunction; peripheral vascular Doppler procedures; invasive and non-invasive cardiology; pulmonary function tests; blood gas analysis; echocardiograph procedures; bronchoscopy; patient management; patient history taking and record keeping; applications to clinical research; and emergency procedures.

Illustrative example(s)

- cardiopulmonary technologist
- cardiopulmonary technology

Exclusion(s)

- cardiovascular science (See 26.0907-Cardiovascular disease-fellowship)
- cardiovascular technician (See 51.0901-Cardiovascular technology/technologist)
- electrocardiograph technician (See 51.0902-Electrocardiograph technology/technician)
- respiratory therapist (See 51.0908-Respiratory care therapy/therapist)

51.0916 Radiation protection/health physics technician

This instructional program class comprises any program that prepares individuals, under the supervision of health physicists, occupational safety and health specialists, and public health officials, to monitor and control radiation exposure and implement preventive measures in health care, work, and natural environments. These programs include courses in radiation physics, environmental radioactivity, radiological instrumentation, electronics of radiation detection equipment, radioactive waste management and control, safety and handling procedures, decontamination procedures, radioactivity testing and analysis, and communications skills.

Illustrative example(s)

- health physics technician
- radiation protection technician
- radiation protection/health physics technician

Exclusion(s)

- exposure device operator (EDO) (See 15.0799-Quality control and safety technologies/technicians, other)
- hazardous waste technology (See 15.0508-Hazardous materials management and waste technology/technician)
- medical physics (See 51.2205-Health/medical physics)
- radiologist assistant (See 51.0814-Radiologist assistant)

51.0917 Polysomnography

This instructional program class comprises any program that prepares individuals to work under the supervision of a physician to provide comprehensive evaluation and treatment of sleep disorders. These programs include courses in human anatomy and physiology, polysomnographic technology, polysomnography scoring, neuroanatomy and neurophysiology of sleep, sleep disorders, and medical terminology.

Illustrative example(s)

- polysomnography
- polysomnography technology
- sleep technology

Exclusion(s)

- sleep medicine - fellowship (See 61.0212-Sleep medicine fellowship programs)

51.0918 Hearing instrument specialist

This instructional program class comprises any program that prepares individuals to test the hearing of, and to select, fit and dispense appropriate hearing aids for patients. These programs include courses in acoustics, anatomy and physiology of the ear, hearing testing, hearing aid fitting and technology, health promotion and rehabilitation, counselling and communication, business management, and professional ethics.

Illustrative example(s)

- hearing aid practitioner
- hearing aid specialist
- hearing aid technician
- hearing instrument specialist

Exclusion(s)

- audiology (See 51.0202-Audiology/audiologist)

51.0919 Mammography technology/technician

This instructional program class comprises any program that prepares registered radiographers to become registered mammographers. These programs include courses in anatomy and physiology, mammography instrumentation, mammography positioning, principles and procedures of mammography, and quality assurance.

Illustrative example(s)

- mammographic radiographer
- mammography
- mammography technician
- mammography technology

Exclusion(s)

- medical oncology - fellowship (See 61.0813-Medical oncology fellowship programs)
- medical radiation technologist (See 51.0911-Medical radiation technologist/radiographer)
- radiation therapist (See 51.0907-Radiation therapist/therapeutic radiographer)
- radiographer (See 51.0911-Medical radiation technologist/radiographer)

51.0920 Magnetic resonance imaging (MRI) technology/technician

This instructional program class comprises any program that prepares individuals who are radiological technicians to utilize MRI technology to obtain still and moving images of various vascular structures in the human body that aid the physician in the diagnosis or treatment of disease and injury. These programs include courses in MRI imaging, sectional anatomy and pathology, MRI technology, MRI techniques and procedures, MRI physics, and clinical training.

Illustrative example(s)

- magnetic resonance imaging technician
- magnetic resonance imaging technology
- magnetic resonance radiographer
- MRI technician
- MRI technology

Exclusion(s)

- medical radiation technologist (See 51.0911-Medical radiation technologist/radiographer)
- radiographer (See 51.0911-Medical radiation technologist/radiographer)
- X-ray technician (See 51.0911-Medical radiation technologist/radiographer)

51.0921 Hyperbaric medicine technology/technician

This instructional program class comprises any program that prepares individuals, under the supervision of physicians, to operate hyperbaric (recompression) chambers for the treatment of disease. These programs include courses in patient assessment and management, hyperbaric safety, physics of hyperbaric and hypobaric exposures, physiology, hyperbaric chamber operation, and air decompression procedures.

Illustrative example(s)

- hyperbaric medical technologist

- hyperbaric medical technology
- hyperbaric medicine technician
- hyperbaric medicine technology
- hyperbaric technician
- hyperbaric technologist

Exclusion(s)

- hyperbaric medicine - fellowship (See 61.0216-Undersea and hyperbaric medicine fellowship programs)

51.0922 Intraoperative neuromonitoring technology/technician

This instructional program class comprises any program that prepares individuals, under the supervision of physicians, to become neuromonitoring technicians who analyze, monitor, and record nervous system function to promote the effective treatment of pathological conditions. These programs include courses in EEG technology, EMG technology, anatomy, and neuroanatomy.

Illustrative example(s)

- intraoperative neuromonitoring technician
- intraoperative neuromonitoring technologist
- intraoperative neuromonitoring technology

Exclusion(s)

- clinical neurophysiology - fellowship (See 61.1103-Clinical neurophysiology fellowship programs)
- EEG technician (See 51.0903-Electroneurodiagnostic/electroencephalographic technology/technologist)
- electrocardiograph technician (See 51.0902-Electrocardiograph technology/technician)
- electroneurodiagnostic technologist (See 51.0903-Electroneurodiagnostic/electroencephalographic technology/technologist)

51.0923 Orthopedic technology/technician

This instructional program class comprises any program that prepares individuals, under the supervision of physicians, to cast, splint, and brace orthopedic injuries. These programs include courses in patient assessment; casting, splinting, and orthopedic appliances; radiographic interpretation; traction; and wound care.

Illustrative example(s)

- orthopedic technician
- orthopedic technologist
- orthopedic technology

Exclusion(s)

- orthopaedic sports medicine - fellowship (See 61.1503-Orthopaedic sports medicine fellowship programs)
- orthopedic footwear repair (See 48.0304-Shoe, boot and leather repair)
- orthopedics/orthopedic surgery - residency (See 61.1501-Orthopedic surgery residency programs)
- orthotist (See 51.2307-Orthotist/prosthetist)

51.0924 Combined laboratory and X-ray technology^{CAN}

This instructional program class comprises any program that prepares individuals to perform general medical laboratory procedures, general diagnostic radiographic procedures, and electrocardiograms. These programs include courses in anatomy and physiology, radiographic anatomy, radiation science and apparatus, image exposure and processing, radiographic technique, patient care in radiography, radiobiology and protection, general laboratory practice, specimen collection and handling, hematology, hemostasis, hematopathology, clinical chemistry, urinalysis, infection control and safety, electrocardiography, medical terminology, medical computer applications, quality management and professional practices.

Illustrative example(s)

- combined lab and x-ray technician

- combined lab and x-ray technologist
- combined laboratory and x-ray technician
- combined laboratory and x-ray technologist
- combined laboratory and X-ray technology
- laboratory and X-ray technology

Exclusion(s)

- medical laboratory technician (See 51.1004-Clinical/medical laboratory technician)
- X-ray technician (See 51.0911-Medical radiation technologist/radiographer)

51.0999 Allied health diagnostic, intervention and treatment professions, other

This instructional program class comprises any program not listed above that relates to Allied health diagnostic, intervention and treatment professions.

Illustrative example(s)

- medical radiation sciences
- medical radiologic science
- other allied health diagnostic, intervention and treatment professions
- radiologic science

51.10 Clinical/medical laboratory science/research and allied professions

This subseries comprises instructional program classes 51.1001 to 51.1099.

51.1001 Blood bank technology specialist

This instructional program class comprises any program that prepares individuals to perform routine and specialized blood testing procedures, collect and process blood donations, and support physicians and other clinicians administering transfusion therapy. These programs include courses in basic cellular biology, immunohematology, blood bank procedures, blood typing, antigen and antibody identification tests, hemolytic and transfusion responses and diseases, donor selection, blood drawing and storage, blood separation, viral marker testing, laboratory and personnel supervision, safety and sterilization, and applicable laws and regulations.

Illustrative example(s)

- blood bank technologist
- blood bank technology specialist

Exclusion(s)

- blood banking medicine - fellowship (See 61.1804-Blood banking/transfusion medicine fellowship programs)
- hematology technologist (See 51.1003-Hematology technology/technician)

51.1002 Cytotechnology/cytotechnologist

This instructional program class comprises any program that prepares individuals to work with pathologists to detect changes in body cells that may indicate, and permit diagnosis of, the early development of cancers and other diseases. These programs include courses in biochemistry, microbiology, applied mathematics, microscopy, slide preparation, identification of cellular structures and abnormalities, and laboratory procedures and safety.

Illustrative example(s)

- cytotechnologist
- cytotechnology

Exclusion(s)

- cytogenetics (See 26.0899-Genetics, other)
- cytology (See 26.0401-Cell/cellular biology and histology)

- cytopathology - fellowship (See 61.1806-Cytopathology fellowship programs)

51.1003 Hematology technology/technician

This instructional program class comprises any program that prepares individuals, under the supervision of clinical laboratory scientists and health care professionals, to perform tests and analyses of blood samples. These programs include courses in clinical laboratory procedures; blood anatomy and physiology; cellular and molecular biology; blood pathology and disease indicators; quantitative, qualitative, and coagulation testing methodologies; equipment operation and maintenance; and recordkeeping.

Illustrative example(s)

- hematology technician
- hematology technologist
- hematology technology

Exclusion(s)

- blood bank technologist (See 51.1001-Blood bank technology specialist)
- hematological pathology - fellowship (See 61.1808-Hematological pathology fellowship programs)
- hematology - fellowship (See 61.0808-Hematology fellowship programs)

51.1004 Clinical/medical laboratory technician

This instructional program class comprises any program that prepares individuals, under the supervision of clinical laboratory scientists/medical technologists, to perform routine medical laboratory procedures and tests and to apply preset strategies to record and analyse data. These programs include courses in general laboratory procedures and skills; laboratory mathematics; medical computer applications; interpersonal and communications skills; and the basic principles of hematology; medical microbiology; immunohematology; immunology; clinical chemistry, and urinalysis.

Illustrative example(s)

- clinical laboratory technician
- medical laboratory technician

Exclusion(s)

- biology lab technology (See 41.0101-Biology and biotechnology technologies/technicians)
- clinical laboratory science (See 51.1005-Clinical laboratory science/medical technology/technologist)
- combined laboratory and X-ray technology (See 51.0924-Combined laboratory and X-ray technology)
- laboratory medicine - fellowship (See 61.1810-Laboratory medicine fellowship programs)
- medical laboratory assistant (See 51.0802-Clinical/medical laboratory assistant)

51.1005 Clinical laboratory science/medical technology/technologist

This instructional program class comprises any program that prepares individuals to conduct and supervise complex medical tests, clinical trials, and research experiments; manage clinical laboratories; and consult with physicians and clinical researchers on diagnoses, disease causation and spread, and research outcomes. These programs include courses in the theory and practice of hematology; clinical chemistry; microbiology; immunology; immunohematology; physiological relationships to test results; laboratory procedures and quality assurance controls; test and research design and implementation; analytic techniques; laboratory management; data development and reporting; medical informatics; and professional standards and regulations.

Illustrative example(s)

- biomedical laboratory technologist
- clinical laboratory science
- clinical laboratory technologist
- medical laboratory science
- medical laboratory technical supervisor
- medical laboratory technologist

- medical technologist

Exclusion(s)

- biology lab technology (See 41.0101-Biology and biotechnology technologies/technicians)
- biomedical technology (See 15.0401-Biomedical technology/technician)
- clinical laboratory technician (See 51.1004-Clinical/medical laboratory technician)
- clinical science (MS, MSc, PhD) (See 51.1401-Medical science/scientist (MS, MSc, PhD))
- laboratory medicine - fellowship (See 61.1810-Laboratory medicine fellowship programs)
- medical laboratory assistant (See 51.0802-Clinical/medical laboratory assistant)
- science laboratory technology (See 41.0000-Science technologies/technicians, general)

51.1006 Ophthalmic laboratory technology/technician

This instructional program class comprises any program that prepares individuals, under the supervision of ophthalmologists and optometrists, to cut, grind, edge, and finish corrective lenses and to fabricate eyewear. These programs include courses in optical theory, applied mathematics, lens surfacing and finishing, tinting and coating, impact resistance treatment and testing, frame construction and repair, prescription interpretation, equipment operation and maintenance, follow-up adjustment, record keeping, and laboratory safety procedures.

Illustrative example(s)

- ophthalmic laboratory technician
- ophthalmic laboratory technologist
- ophthalmic laboratory technology

Exclusion(s)

- dispensing optician (See 51.1801-Opticianry/ophthalmic dispensing optician)
- ophthalmic assistant (See 51.1803-Ophthalmic technician/technologist)
- ophthalmology - residency (See 61.1401-Ophthalmology residency programs)
- optometric assistant (See 51.1802-Optometric technician/assistant)
- optometry (See 51.1701-Optometry (OD))

51.1007 Histologic technology/histotechnologist

This instructional program class comprises any program that prepares individuals, at the request of physicians, researchers, and laboratory scientists, to identify tissue structures and cell components and relate these findings to physiological functions and to the detection and diagnosis of diseases and other abnormalities. These programs include courses in medical chemistry; histochemistry; biochemistry; anatomy; physiology; medical informatics; applied mathematics; electron microscopy; instrumentation; quality control procedures; data recording and analysis; laboratory administration; medical terminology; and professional standards and ethics.

Illustrative example(s)

- histologic technologist
- histologic technology
- histotechnologist

Exclusion(s)

- histologic technician (See 51.1008-Histologic technician)
- histology (See 26.0401-Cell/cellular biology and histology)

51.1008 Histologic technician

This instructional program class comprises any program that prepares individuals, under the supervision of histotechnologists and other clinical laboratory scientists, to prepare and process tissue samples and perform routine histologic procedures and tests. These programs include courses in fixation, dehydration, embedding, sectioning, decalcification, microincineration, mounting, routine and special steaming, laboratory mathematics, laboratory procedures and safety, instrumentation and microscopy, computer applications, preparation of museum specimens, and recording and administrative procedures.

Illustrative example(s)

- histologic technician

Exclusion(s)

- histologic technologist (See 51.1007-Histologic technology/histotechnologist)
- histology (See 26.0401-Cell/cellular biology and histology)

51.1009 Phlebotomy technician/phlebotomist

This instructional program class comprises any program that prepares individuals, under the supervision of physicians and other health care professionals, to draw blood samples from patients using a variety of intrusive procedures. These programs include courses in basic vascular anatomy and physiology, blood physiology, skin puncture techniques, venipuncture, venous specimen collection and handling, safety and sanitation procedures, and applicable standards and regulations.

Illustrative example(s)

- phlebotomist
- phlebotomy
- phlebotomy technician

Exclusion(s)

- hematology - fellowship (See 61.0808-Hematology fellowship programs)
- hematology technologist (See 51.1003-Hematology technology/technician)

51.1010 Cytogenetics/genetics/clinical genetics technology/technologist

This instructional program class comprises any program that prepares individuals to perform analyses of the human genome and chromosomes for the research and diagnosis of genetic diseases and defects, in preparation for organ transplants, and in support of treatments for cancers and leukemias. These programs include courses in chromosome analysis, fluorescent in situ hybridization (FISH), molecular genetic techniques, cytotechnology, and photomicrography.

Illustrative example(s)

- clinical genetics technologist
- clinical genetics technology
- cytogenetics technologist
- cytogenetics technology
- genetics technologist
- genetics technology

Exclusion(s)

- clinical cytogenetics - residency (See 61.0903-Laboratory genetics and genomics residency programs)
- cytogenetics (See 26.0899-Genetics, other)
- cytology (See 26.0401-Cell/cellular biology and histology)
- cytopathology - fellowship (See 61.1806-Cytopathology fellowship programs)
- cytotechnology (See 51.1002-Cytotechnology/cytotechnologist)

51.1011 Renal/dialysis technologist/technician

This instructional program class comprises any program that prepares individuals to administer hemodialysis treatments to patients with renal failure under the supervision of a nurse or physician. These programs include courses in basic anatomy and physiology, dialysis prescription interpretation, dialysate preparation, extracorporeal circuit and dialyzer set-up and maintenance, equipment monitoring, patient preparation, taking vital signs, documentation and communication, venipuncture and local anesthesia administration, emergency intervention, safety and sanitation, and professional standards and ethics.

Illustrative example(s)

- dialysis technician
- dialysis technologist
- dialysis technology
- renal technician
- renal technologist

51.1012 Sterile processing technology/technician

This instructional program class comprises any program that prepares individuals to clean, sterilize, and assemble surgical instruments, equipment, and supplies for use in operating rooms and other medical and surgical facilities. These programs include courses in sterilization; infection control; decontamination; and surgical instrumentation processing, distribution, and record keeping.

Illustrative example(s)

- medical device reprocessing
- sterile processing
- sterile processing and distribution
- sterile processing technician
- sterile processing technology
- sterile supply technician
- sterile technician
- sterilization technician

Exclusion(s)

- surgical technician (See 51.0909-Surgical technology/technologist)

51.1099 Clinical/medical laboratory science/research and allied professions, other

This instructional program class comprises any program not listed above that relates to Clinical/medical laboratory science/research and allied professions.

Illustrative example(s)

- other clinical/medical laboratory science/research and allied professions
- pharmaceutical technician
- pharmaceutical technology

Exclusion(s)

- clinical laboratory technician (See 51.1004-Clinical/medical laboratory technician)
- pharmaceutical sciences (See 51.2010-Pharmaceutical sciences)

51.11 Health/medical preparatory programs

This subseries comprises instructional program classes 51.1101 to 51.1199.

51.1101 Pre-dentistry studies

This instructional program class comprises any program that prepares individuals for admission to a professional program in dentistry.

Illustrative example(s)

- pre-dentistry
- pre-dentistry studies

Exclusion(s)

- dental/oral surgery specialty - residency (See 60.0101-Oral and maxillofacial surgery residency programs)
- dentistry (See 51.0401-Dentistry (DDS, DMD))

51.1102 Pre-medicine/pre-medical studies

This instructional program class comprises any program that prepares individuals for admission to a professional program in medicine, osteopathic medicine, or podiatric medicine.

Illustrative example(s)

- pre-med
- pre-medical studies
- pre-medicine

Exclusion(s)

- family medicine - residency (See 61.0701-Family medicine residency programs)
- internal medicine - residency (See 61.0801-Internal medicine residency programs)
- medical biology (See 26.0102-Biomedical sciences, general)
- medical science (MS, MSc, PhD) (See 51.1401-Medical science/scientist (MS, MSc, PhD))
- medicine (See 51.1201-Medicine (MD))

51.1103 Pre-pharmacy studies

This instructional program class comprises any program that prepares individuals for admission to a professional program in pharmacy.

Illustrative example(s)

- pre-pharmacy
- pre-pharmacy studies

Exclusion(s)

- pharmacology (See 26.1001-Pharmacology)
- pharmacy (See 51.2001-Pharmacy (PharmD, BS, BSc, BPharm))
- pharmacy administration (See 51.2002-Pharmacy administration and pharmacy policy and regulatory affairs (MS, MSc, PhD))

51.1105 Pre-nursing studies

This instructional program class comprises any program that prepares individuals for admission to a professional program in Nursing.

Illustrative example(s)

- pre-nursing
- pre-nursing studies

Exclusion(s)

- medical assistant (See 51.0801-Medical/clinical assistant)
- nursing administration (See 51.3802-Nursing administration (Cert., MSN, MS, MScN, MSc, PhD))
- physician assistant (See 51.0912-Physician assistant/associate)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.1106 Pre-chiropractic studies

This instructional program class comprises any program that prepares individuals for admission to a professional program in chiropractic medicine.

Illustrative example(s)

- pre-chiropractic
- pre-chiropractic studies

Exclusion(s)

- doctor of chiropractic medicine (DC) (See 51.0101-Chiropractic (DC))

51.1107 Pre-occupational therapy studies

This instructional program class comprises any program that prepares individuals for admission to a professional program in occupational therapy.

Illustrative example(s)

- pre-occupational therapy
- pre-occupational therapy studies

Exclusion(s)

- occupational therapy (See 51.2306-Occupational therapy/therapist)

51.1108 Pre-optometry studies

This instructional program class comprises any program that prepares individuals for admission to a professional program in optometry.

Illustrative example(s)

- pre-optometry
- pre-optometry studies

Exclusion(s)

- optometry (See 51.1701-Optometry (OD))

51.1109 Pre-physical therapy studies

This instructional program class comprises any program that prepares individuals for admission to a professional program in physical therapy.

Illustrative example(s)

- pre-physical therapy
- pre-physical therapy studies

Exclusion(s)

- physical therapy (See 51.2308-Physical therapy/therapist)

51.1110 Pre-art therapy studies

This instructional program class comprises any program that prepares individuals for admission to a professional art therapy program.

Illustrative example(s)

- pre-art therapy
- pre-art therapy studies

Exclusion(s)

- art therapy (See 51.2301-Art therapy/therapist)

51.1111 Pre-physician assistant studies

This instructional program class comprises any program that prepares individuals for admission to a professional physician assistant program.

Illustrative example(s)

- pre-physician assistant
- pre-physician assistant studies

Exclusion(s)

- physician assistant (See 51.0912-Physician assistant/associate)

51.1199 Health/medical preparatory programs, other

This instructional program class comprises any program not listed above that relates to Health/medical preparatory programs.

Illustrative example(s)

- other health/medical preparatory programs
- pre-health science
- pre-health science studies

51.12 Medicine

This subseries comprises instructional program classes 51.1201 to 51.1299.

51.1201 Medicine (MD)

This instructional program class comprises any program that prepares individuals for the independent professional practice of medicine, involving the prevention, diagnosis, and treatment of illnesses, injuries, and other disorders of the human body. These programs include courses in the basic medical sciences, clinical medicine, examination and diagnosis, patient communications, medical ethics and laws, professional standards, and rotations in specialties such as internal medicine, surgery, pediatrics, obstetrics and gynecology, orthopedics, neurology, ophthalmology, radiology, clinical pathology, anesthesiology, family medicine, and psychiatry.

Illustrative example(s)

- allopathic medicine
- allopathic physician
- doctor
- general medicine
- general practice
- general practitioner
- MD
- medical doctor
- medicine
- physician

Exclusion(s)

- family medicine - residency (See 61.0701-Family medicine residency programs)
- homeopathic medicine (See 51.3304-Homeopathic medicine/homeopathy)
- internal medicine - residency (See 61.0801-Internal medicine residency programs)
- medical biology (See 26.0102-Biomedical sciences, general)
- medical science (MS, MSc, PhD) (See 51.1401-Medical science/scientist (MS, MSc, PhD))
- naturopathic medicine (See 51.3303-Naturopathic medicine/naturopathy (ND, NMD))
- osteopathic medicine (See 51.1202-Osteopathic medicine/osteopathy (DO))
- podiatric medicine (See 51.1203-Podiatric medicine/podiatry (DPM))
- pre-medicine (See 51.1102-Pre-medicine/pre-medical studies)

51.1202 Osteopathic medicine/osteopathy (DO)

This instructional program class comprises any program that prepares individuals for the independent professional practice of osteopathic medicine, involving a combination of medical principles and procedures and osteopathic

principles of holistic medicine and the relationship of the musculoskeletal system to general health. These programs include courses in the basic medical sciences, preventive medicine, family and community medicine, medical informatics, disease systems, organ and physiologic systems, osteopathic principles and practice, osteopathic manipulative treatment, musculoskeletal and skin systems, clinical specialty rotations, medical ethics, and professional standards and practice management.

Illustrative example(s)

- doctor of osteopathic medicine (DO)
- osteopath
- osteopathic medicine
- osteopathy

Exclusion(s)

- homeopathic medicine (See 51.3304-Homeopathic medicine/homeopathy)
- medicine (See 51.1201-Medicine (MD))
- osteopathic neuromusculoskeletal medicine - residency (See 61.1601-Osteopathic neuromusculoskeletal medicine residency programs)
- podiatric medicine (See 51.1203-Podiatric medicine/podiatry (DPM))

51.1203 Podiatric medicine/podiatry (DPM)

This instructional program class comprises any program that prepares individuals for the independent professional practice of podiatric medicine, involving the prevention, diagnosis, and treatment of diseases, disorders, and injuries to the foot and lower extremities. These programs include courses in the basic medical sciences; anatomy of the lower extremity; functional orthopedics; foot biomechanics; podiatric radiology; dermatology; podiatric surgery; podopediatrics; sports medicine; physical diagnosis; emergency medicine and traumatology; practice management; and professional standards and ethics.

Illustrative example(s)

- chiropodist
- chiropody
- doctor of podiatric medicine (DPM)
- podiatric medicine
- podiatrist
- podiatry
- podology

Exclusion(s)

- medicine (See 51.1201-Medicine (MD))
- osteopathic medicine (See 51.1202-Osteopathic medicine/osteopathy (DO))
- pediatrics - residency (See 61.1901-Pediatrics residency programs)
- podiatric medicine and surgery - residency (See 61.2201-Podiatric medicine and surgery residency programs)

51.1299 Medicine, other

This instructional program class comprises any program not listed above that relates to Medicine.

Illustrative example(s)

- other medicine

51.14 Medical clinical sciences/graduate medical studies

This subseries comprises instructional program classes 51.1401 to 51.1499.

51.1401 Medical science/scientist (MS, MSc, PhD)

This instructional program class comprises any undifferentiated clinical science program that prepares clinicians to conduct clinical and translational research in various areas. Note: Programs that prepare clinicians to conduct research in specific scientific fields should report under the relevant CIP code series (e.g., Series 26 Biological and biomedical sciences).

Illustrative example(s)

- clinical science (MS, MSc, PhD)
- clinician investigator program (MS, MSc, PhD)
- experimental medicine (MS, MSc, PhD)
- medical clinical science (MS, MSc, PhD)
- medical research (MS, MSc, PhD)
- medical science (MS, MSc, PhD)
- medical scientist (MS, MSc, PhD)

Exclusion(s)

- clinical and translational science (See 51.1402-Clinical and translational science (Cert., MS, MSc, PhD))
- clinical laboratory science (See 51.1005-Clinical laboratory science/medical technology/technologist)
- clinical trial research coordination (See 51.0719-Clinical research coordinator)
- dental sciences (MS, MSc, PhD) (See 51.0501-Dental clinical sciences, general (MS, MSc, PhD))
- laboratory medicine - fellowship (See 61.1810-Laboratory medicine fellowship programs)
- medical biology (See 26.0102-Biomedical sciences, general)
- medical engineering (See 14.0501-Biomedical/medical engineering)
- medicine (See 51.1201-Medicine (MD))
- research methodology and quantitative methods (See 45.0102-Research methodology and quantitative methods)
- veterinary sciences (Cert., MS, MSc, PhD) (See 01.8101-Veterinary sciences/veterinary clinical sciences, general (Cert., MS, MSc, PhD))

51.1402 Clinical and translational science (Cert., MS, MSc, PhD)

This instructional program class comprises any program that prepares clinicians to direct a broad range of scientific or clinical or translational studies, translate scientific knowledge into clinical practice, and bridge clinical science with laboratory investigations. These programs include courses in bioinformatics, Information technology, biostatistics, epidemiology, grant writing, management and analysis of clinical data, clinical and translational research law and policy, responsible conduct of research, and scientific writing.

Illustrative example(s)

- clinical and translational science
- translational and clinical science
- translational medicine
- translational research in health sciences
- translational science

Exclusion(s)

- clinical science (See 51.1401-Medical science/scientist (MS, MSc, PhD))

51.1403 Pain management (Cert., MS, MSc, PhD)

This instructional program class comprises any program that prepares clinicians in the diagnosis, management, and treatment of acute and chronic pain. These programs include courses in anesthesiology, pain assessment, pain classification and diagnosis, pain neuroscience, palliative and end-of-life care, physical medicine and rehabilitation, psychiatry of pain, pain pharmacology, public policy, and legal issues of pain management.

Illustrative example(s)

- pain control
- pain management
- pain management (university)

Exclusion(s)

- pain management (college) (See 51.3899-Registered nursing, nursing administration, nursing research and clinical nursing, other)
- pain management nurse practitioner - residency (See 60.0733-Pain management nurse practitioner residency/fellowship programs)
- pain medicine - fellowship (See 61.0210-Pain medicine fellowship programs)

51.1404 Temporomandibular disorders and orofacial pain (Cert., MS, MSc, PhD)

This instructional program class comprises any program that prepares clinicians to evaluate, diagnose, and treat of a wide variety of temporomandibular disorders (TMD) and orofacial pain disorders as well as the treatment of sleep apnea and snoring with intraoral appliances. These programs include courses in head and neck anatomy, physical diagnosis and evaluation, orofacial pain, neurobiology of pain and analgesia, and diagnostic radiography.

Illustrative example(s)

- orofacial pain
- temporomandibular disorders
- temporomandibular disorders and orofacial pain

Exclusion(s)

- oral and maxillofacial radiology - residency (See 60.0109-Oral and maxillofacial radiology residency programs)
- oral and maxillofacial surgery - residency (See 60.0101-Oral and maxillofacial surgery residency programs)
- oral and maxillofacial surgery (Cert., MS, MSc, PhD) (See 51.0507-Oral/maxillofacial surgery (Cert., MS, MSc, PhD))
- prosthodontology (Cert., MS, MSc, PhD) (See 51.0511-Prosthodontics/prosthodontology (Cert., MS, MSc, PhD))

51.1405 Tropical medicine (Cert., MS, MSc, PhD)

This instructional program class comprises any program that prepares clinicians to prevent and control vector-borne and tropical infectious diseases. These programs include courses in microbiology, parasitology, mycology, virology, vector biology, vaccinology, laboratory diagnosis, travelers' health, epidemiology, and disease management.

Illustrative example(s)

- tropical medicine
- tropical medicine and global health
- tropical medicine and public health

Exclusion(s)

- infectious disease - fellowship (See 61.0810-Infectious disease fellowship programs)

51.1499 Medical clinical sciences/graduate medical studies, other

This instructional program class comprises any program not listed above that relates to Medical clinical sciences/graduate medical studies.

Illustrative example(s)

- other graduate medical studies
- other medical clinical sciences

51.15 Mental and social health services and allied professions

This subseries comprises instructional program classes 51.1501 to 51.1599.

51.1501 Substance abuse/addiction counselling

This instructional program class comprises any program that prepares individuals to help prevent substance abuse, counsel individuals and families with drug and alcohol problems, and perform intervention and therapeutic services for persons suffering from addiction. These programs include courses in individual and group counselling skills, psychology of addiction, sociology, crisis intervention, substance abuse identification methodologies, substance abuse treatment modalities, substance abuse prevention and treatment resources, pharmacology and behavioural aspects of abused substances, treatment evaluation, patient observation and education, group dynamics, professional standards and ethics, and applicable laws and regulations.

Illustrative example(s)

- addiction counselling
- addiction intervention
- chemical dependency counselling
- drug and alcohol counselling
- substance abuse counselling

Exclusion(s)

- addiction psychiatry - fellowship (See 61.2402-Addiction psychiatry fellowship programs)
- cannabis abuse counselling (See 51.1580-Cannabis abuse/cannabis addiction counselling^{CAN})
- cannabis addiction counselling (See 51.1580-Cannabis abuse/cannabis addiction counselling^{CAN})
- counselling psychology (See 42.2803-Counselling psychology)
- psychopharmacology (See 42.2709-Psychopharmacology)
- social work (See 44.0701-Social work, general)

51.1502 Psychiatric/mental health services technician

This instructional program class comprises any program that prepares individuals, under the supervision of psychiatrists, psychologists, nurses, and other mental health care professionals, to provide direct patient care services, assist in developing and implementing treatment plans, administer medications, and perform related administrative functions. These programs include courses in mental health theory, applied psychopathology, patient communication and management, crisis intervention, psychotropic medication, mental health treatment procedures, substance abuse, record keeping, clinical administrative skills, and applicable standards and regulations.

Illustrative example(s)

- mental health care
- mental health services technician
- psychiatric services technician

Exclusion(s)

- infant and toddler mental health services (See 51.1510-Infant/toddler mental health services)
- psychiatric nurse (See 51.3810-Psychiatric/mental health nurse/nursing)
- psychiatry - residency (See 61.2401-Psychiatry residency programs)
- registered psychiatric nurse (See 51.3823-Registered psychiatric nurse/nursing)
- suicide prevention (See 51.1508-Mental health counselling/counsellor)

51.1503 Clinical/medical social work

This instructional program class comprises any program that prepares individuals for the specialized professional practice of social work, in collaboration with other health care professionals, in hospitals and other health care facilities and organizations. These programs include courses in social work, psychiatric case work, clinical

interviewing techniques, therapeutic intervention strategies, patient testing and evaluation, patient and family counselling, social rehabilitation, patient care planning, record keeping, and support services liaison.

Illustrative example(s)

- clinical social work
- medical social work

Exclusion(s)

- forensic social work (See 44.0703-Forensic social work)
- social work (See 44.0701-Social work, general)

51.1504 Community health services/liaison/counselling

This instructional program class comprises any program that prepares individuals to serve as facilitators, advocates, and referral professionals linking health care and related social services with affected recipient communities. These programs include courses in public and community health, human and social services, health services administration, group counselling, health education, group advocacy, cross-cultural and multilingual communication, and applicable laws and policies.

Illustrative example(s)

- community and health services navigation
- community health care
- community health counselling
- community health education
- community health liaison
- community health representative
- community health services
- patient navigator

Exclusion(s)

- community health and preventive medicine (See 51.2208-Community health and preventive medicine)
- public health nurse (See 51.3811-Public health/community nurse/nursing)
- social work (See 44.0701-Social work, general)

51.1505 Marriage and family therapy/counselling

This instructional program class comprises any program that prepares individuals for the independent professional practice of marriage and family therapy, involving the diagnosis of cognitive, affective, and behavioural domain disorders, both mental and emotional, within the context of marriage and family systems and the application of short- and long-term therapeutic strategies in family group contexts. These programs include courses in psychotherapy, family systems and studies, small group intervention and therapy, marital problems, depression, identification of psychopathologies and behavioural disorders, holistic health care, practice management, applicable regulations, and professional standards and ethics.

Illustrative example(s)

- couple and family therapy
- family counselling
- family therapy
- marriage and family counselling
- marriage and family therapy
- marriage counselling

Exclusion(s)

- family psychology (See 42.2811-Family psychology)
- family systems (See 19.0704-Family systems)
- medical family therapy (See 51.1511-Medical family therapy/therapist)

51.1506 Clinical pastoral counselling/patient counselling

This instructional program class comprises any program that prepares individuals, including but not limited to, ordained clergy and other counselling professionals to respond to the emotional and/or spiritual needs of patients and families in health care emergencies and other situations, and to consult with and counsel other health care professionals. These programs include courses in advanced interpersonal communication; individual and small group counselling; interdisciplinary teamwork; crisis management; extended care relationships; self-analysis; medical ethics; pastoral care art; spiritual dimensions of human growth and health; counselling psychology and therapy; and applications to grief, death, emotional collapse, injury, individual/family adjustment, and chronic illness situations.

Illustrative example(s)

- clinical pastoral counselling
- clinical pastoral patient counselling

Exclusion(s)

- counselling psychology (See 42.2803-Counselling psychology)
- pastoral counselling (See 39.0701-Pastoral studies/counselling)

51.1507 Psychoanalysis and psychotherapy

This instructional program class comprises any program that prepares individuals to practice the provision of psychoanalytic counselling to individuals and groups based on the psychodynamic principles evolved from authorities such as Freud, Adler, and Jung. These programs include courses in self-analysis, personality theory, dream analysis, free association and transference theory and techniques, psychodynamic theory, developmental processes, applications to specific clinical conditions, practice management, and professional standards and ethics.

Illustrative example(s)

- psychoanalysis
- psychoanalysis and psychotherapy
- psychotherapy

Exclusion(s)

- applied psychology (See 42.2813-Applied psychology)
- mental health care (See 51.1502-Psychiatric/mental health services technician)
- psychiatry - residency (See 61.2401-Psychiatry residency programs)
- psychology (See 42.0101-Psychology, general)
- psychometrics (See 42.2708-Psychometrics and quantitative psychology)

51.1508 Mental health counselling/counsellor

This instructional program class comprises any program that prepares individuals to provide evaluations, referrals, and short-term counselling services to help people prevent or remediate personal problems, conflicts, and emotional crises. These programs include courses in human development, psychopathology, individual and group counselling, personality theory, career assessment, patient screening and referral, observation and testing techniques, interviewing skills, professional standards and ethics, and applicable laws and regulations.

Illustrative example(s)

- mental health counselling
- mental health counsellor
- suicide prevention

Exclusion(s)

- mental health care (See 51.1502-Psychiatric/mental health services technician)
- post-traumatic stress disorder (PTSD) counselling (See 51.1513-Trauma counselling)

- psychiatric nurse (See 51.3810-Psychiatric/mental health nurse/nursing)
- psychiatry - residency (See 61.2401-Psychiatry residency programs)
- trauma counselling (See 51.1513-Trauma counselling)

51.1509 Genetic counselling/counsellor

This instructional program class comprises any program that prepares individuals to counsel patients and families concerning inherited genetic disorders and diseases, children with birth defects; assess risk factors and planning options associated with potential and actual inherited conditions; and serve as patient advocates and provide referral services in relation to private and public support services. These programs include courses in clinical/medical genetics, methods of genetic testing, interviewing and counselling skills, genetic and support services delivery, principles of public health, medical ethics, laws and regulations, patient advocacy, and professional standards.

Illustrative example(s)

- genetic counselling
- genetic counsellor

Exclusion(s)

- gene therapy (See 51.0914-Gene/genetic therapy)
- genetics (See 26.0801-Genetics, general)
- molecular genetics (See 26.0802-Molecular genetics)

51.1510 Infant/toddler mental health services

This instructional program class comprises any program that prepares individuals to provide mental health services to infants, toddlers, and preschoolers and their families. These programs include courses in developmental psychology, cognitive and biological development, social and emotional development, research methods, and ethics.

Illustrative example(s)

- infant and toddler mental health services
- infant mental health services
- toddler mental health services

Exclusion(s)

- mental health services technician (See 51.1502-Psychiatric/mental health services technician)

51.1511 Medical family therapy/therapist

This instructional program class comprises any program that prepares individuals to work with patients and their families who are experiencing emotional, physical, relational and spiritual difficulties related to acute and chronic illnesses. These programs include courses in cultural context, ethics, family dynamics, family therapy, gender, human development, marriage counselling, psychopathology, research design and methods, sexuality, and systems thinking.

Illustrative example(s)

- medical family therapist
- medical family therapy

Exclusion(s)

- family therapy (See 51.1505-Marriage and family therapy/counselling)

51.1512 Hospice and palliative care

This instructional program class comprises any program that prepares individuals to work with patients in hospice and palliative care and focuses on the physical, psychological, spiritual, and social needs of patients

and families affected by advanced illness. These programs include courses in aging, thanatology, pharmacology, complementary and integrative therapies, pathophysiology, and ethics.

Illustrative example(s)

- end of life care
- hospice and palliative care
- hospice care
- palliative and hospice care
- palliative care
- terminal care

Exclusion(s)

- hospice and palliative medicine - fellowship (See 61.0205-Hospice and palliative medicine fellowship programs)
- hospice and palliative medicine nurse practitioner - residency (See 60.0722-Hospice and palliative medicine nurse practitioner residency/fellowship programs)

51.1513 Trauma counselling

This instructional program class comprises any program that focuses on understanding elements of traumatic exposure, trauma-sensitive care, and crisis intervention. These programs include courses in disaster response, grief and loss counselling, crisis intervention and management, trauma counselling, neurobiology of trauma, PTSD and combat-related trauma, relational trauma and treatment of trauma-related disorders.

Illustrative example(s)

- crisis intervention
- crisis intervention management
- post-traumatic stress disorder (PTSD) counselling
- post-traumatic stress disorder counselling
- PTSD counselling
- trauma counselling

Exclusion(s)

- mental health counselling (See 51.1508-Mental health counselling/counsellor)
- suicide prevention (See 51.1508-Mental health counselling/counsellor)
- trauma nursing (See 51.3816-Emergency room/trauma nurse/nursing)

51.1580 Cannabis abuse/cannabis addiction counselling^{CAN}

This instructional program class comprises any program that prepares individuals to help prevent cannabis abuse, counsel individuals and families with cannabis problems, and perform intervention and therapeutic services for persons suffering from cannabis addiction. These programs include courses in individual and group counselling skills, psychology of cannabis addiction, sociology, crisis intervention, cannabis abuse identification methodologies, cannabis abuse treatment modalities, cannabis abuse prevention and treatment resources, pharmacology and behavioural aspects of cannabis, treatment evaluation, patient observation and education, group dynamics, professional standards and ethics, and applicable laws and regulations.

Illustrative example(s)

- cannabis abuse counselling
- cannabis abuse intervention
- cannabis abuse prevention
- cannabis addiction counselling
- cannabis addiction prevention and treatment
- cannabis dependency counselling

Exclusion(s)

- addiction counselling (See 51.1501-Substance abuse/addiction counselling)
- cannabis-related public health (See 51.2280-Cannabis-related public health^{CAN})
- substance abuse counselling (See 51.1501-Substance abuse/addiction counselling)

51.1599 Mental and social health services and allied professions, other

This instructional program class comprises any program not listed above that relates to Mental and social health services and allied professions.

Illustrative example(s)

- applied counselling
- critical incident stress management
- fetal alcohol spectrum disorder (FASD)
- other mental and social health services and allied professions
- psychosocial rehabilitation
- residential counselling
- sexology

Exclusion(s)

- critical incident response/special police operations (See 43.0119-Critical incident response/special police operations)

51.17 Optometry (OD)

This subseries comprises instructional program class 51.1701.

51.1701 Optometry (OD)

This instructional program class comprises any program that prepares individuals for the independent professional practice of optometry and that focuses on the principles and techniques for examining, diagnosing and treating conditions of the visual system. These programs include courses in prescribing glasses and contact lenses, other optical aids, corrective therapies, patient counselling, physician referral, practice management, and ethics and professional standards.

Illustrative example(s)

- doctor of optometry (OD)
- optometrist
- optometry

Exclusion(s)

- dispensing optician (See 51.1801-Opticianry/ophthalmic dispensing optician)
- ophthalmology - residency (See 61.1401-Ophthalmology residency programs)
- optical science (See 40.0807-Optics/optical sciences)
- orthoptics (See 51.1804-Orthoptics/orthoptist)
- pre-optometry studies (See 51.1108-Pre-optometry studies)
- vision science (See 26.0909-Vision science/physiological optics)

51.18 Ophthalmic and optometric support services and allied professions

This subseries comprises instructional program classes 51.1801 to 51.1899.

51.1801 Opticianry/ophthalmic dispensing optician

This instructional program class comprises any program that prepares individuals to adapt and fit corrective eyewear, including eyeglasses and contact lenses, as prescribed by ophthalmologists or optometrists; to assist patients in selecting appropriate frames; and to prepare work orders for ophthalmic laboratory technicians. These programs include courses in geometrical optics; ophthalmic optics; anatomy of the eye; optical instrumentation;

use and maintenance of adjustment and cleaning tools; prescription interpretation; contact lens adaptation and fitting; prosthesis fitting; facial and eye measuring; pathology identification; record keeping; and patient and business administrative tasks.

Illustrative example(s)

- dispensing optician
- ophthalmic dispenser
- ophthalmic dispensing
- ophthalmic dispensing optician
- optician
- opticianry

Exclusion(s)

- ophthalmology - residency (See 61.1401-Ophthalmology residency programs)
- optical science (See 40.0807-Optics/optical sciences)
- optometric assistant (See 51.1802-Optometric technician/assistant)
- optometry (See 51.1701-Optometry (OD))
- vision science (See 26.0909-Vision science/physiological optics)

51.1802 Optometric technician/assistant

This instructional program class comprises any program that prepares individuals to assist optometrists in providing patient care, administering examinations and treatments, and performing office administrative functions. These programs include courses in applied anatomy and physiology of the eye, visual testing, patient communication, patient preparation, medications and administration, dispensing and fitting of eyeglasses and contact lenses, record keeping, and office management skills.

Illustrative example(s)

- optometric assistant
- optometric technician

Exclusion(s)

- dispensing optician (See 51.1801-Opticianry/ophthalmic dispensing optician)
- laser and optical technology (See 15.0304-Laser and optical technology/technician)
- optical science (See 40.0807-Optics/optical sciences)
- optometry (See 51.1701-Optometry (OD))
- vision science (See 26.0909-Vision science/physiological optics)

51.1803 Ophthalmic technician/technologist

This instructional program class comprises any program that prepares individuals to assist ophthalmologists and optometrists in examining and treating patients with vision problems, vision disorders, and eye diseases. These programs include courses in taking patient histories; administering directed treatments and topical medications; diagnostic test procedures and equipment operation; anatomical and functional ocular measurements; patient care and instruction; ophthalmic and surgical equipment maintenance; safety and sterilization procedures; and office administrative procedures.

Illustrative example(s)

- ophthalmic medical technologist
- ophthalmic medical technology
- ophthalmic technician
- ophthalmic technologist

Exclusion(s)

- dispensing optician (See 51.1801-Opticianry/ophthalmic dispensing optician)

51.1804 Orthoptics/orthoptist

This instructional program class comprises any program that prepares individuals, under the supervision of ophthalmologists, to analyse, evaluate, and treat specific disorders of vision, eye movement, and eye alignment in children and adults. These programs include courses in eye anatomy, neuroanatomy, physiology, pharmacology, ophthalmic optics, diagnostic testing and measurement, orthoptic treatment therapy, systemic ocular diseases and disorders, principles of surgery, examination techniques, patient education, child psychology and development, learning disabilities, medical writing, and record keeping.

Illustrative example(s)

- orthoptics
- orthoptist

51.1899 Ophthalmic and optometric support services and allied professions, other

This instructional program class comprises any program not listed above that relates to Ophthalmic and optometric support services and allied professions.

Illustrative example(s)

- other ophthalmic and optometric support services and allied professions

51.20 Pharmacy, pharmaceutical sciences and administration

This subseries comprises instructional program classes 51.2001 to 51.2099.

51.2001 Pharmacy (PharmD, BS, BSc, BPharm)

This instructional program class comprises any program that prepares individuals for the independent or employed practice of preparing and dispensing drugs and medications in consultation with prescribing physicians and other health care professionals, and for managing pharmacy practices and counselling patients. These programs include courses in mathematics, physics, chemistry, biochemistry, anatomy, physiology, pharmacology, pharmaceutical chemistry, pharmacognosy, pharmacy practice, pharmacy administration, applicable regulations, and professional standards and ethics.

Illustrative example(s)

- BPharm
- BS Pharmacy
- BSc Pharmacy
- DPharm
- pharmacist
- pharmacy
- PharmD

Exclusion(s)

- clinical pharmacy (See 51.2008-Clinical, hospital and managed care pharmacy (MS, MSc, PhD))
- pharmaceutical sciences (See 51.2010-Pharmaceutical sciences)
- pharmacy administration (See 51.2002-Pharmacy administration and pharmacy policy and regulatory affairs (MS, MSc, PhD))
- pharmacy technology (See 51.0805-Pharmacy technician/assistant)

51.2002 Pharmacy administration and pharmacy policy and regulatory affairs (MS, MSc, PhD)

This instructional program class comprises any program that prepares individuals to apply managerial, social, and economic sciences to the study and management of the distribution and use of pharmaceutical products and the provision of pharmacy services. These programs include courses in research design and methods, statistics, social and organizational behaviour, pharmacoeconomics, management of pharmacy services,

outcomes research, product planning and reimbursement, cost-benefit analysis, drug marketing, pharmacy and pharmaceuticals laws and regulations, risk assessment, and organization of the health care system.

Illustrative example(s)

- pharmacy administration and pharmacy policy and regulatory affairs
- pharmacy administration
- pharmacy policy
- pharmacy quality assurance and regulatory affairs
- pharmacy regulatory affairs

Exclusion(s)

- health services administration (See 51.2211-Health services administration)
- regulatory affairs (See 51.0720-Regulatory science/affairs)

51.2003 Pharmaceuticals and drug design (MS, MSc, PhD)

This instructional program class comprises any program that focuses on the scientific study of the formulation of medicinal substances into product vehicles capable of being stored, transported, and then introduced into the patient and behaving in ways optimal to therapeutic interaction. These programs include courses in statistics, biopharmaceutics, drug metabolism, pharmacokinetics, pharmacodynamics, physical pharmacy, pharmacological analysis, drug design and development, pharmacological biotechnology, chemical separations, spectroscopy, drug-host interactions, immunology, quantitative drug measurement, enzymatic transformations, and metabolic excretion.

Illustrative example(s)

- drug design
- pharmaceutics
- pharmaceutics and drug design

Exclusion(s)

- biomedical toxicology (See 26.1004-Toxicology)
- pharmaceutical engineering (See 14.0799-Chemical engineering, other)
- pharmacology (See 26.1001-Pharmacology)

51.2004 Medicinal and pharmaceutical chemistry (MS, MSc, PhD)

This instructional program class comprises any program that focuses on the application of chemistry to the study of biologically and clinically active substances, biological and pharmacological interactions, and the development of associated research methods, techniques, and clinical trial procedures. These programs include courses in organic chemistry, biochemistry, molecular graphics, rational drug design, toxicology, molecular biology, pharmacology, enzyme mechanisms, receptor theory, neurochemistry, drug metabolism, drug synthesis, biological mechanisms of drug action, research tools and techniques, and laboratory safety.

Illustrative example(s)

- biological and pharmaceutical chemistry
- medicinal and pharmaceutical chemistry
- medicinal chemistry
- pharmaceutical chemistry

Exclusion(s)

- biochemical engineering (See 14.4301-Biochemical engineering)
- pharmaceutical engineering (See 14.0799-Chemical engineering, other)
- pharmaceutical sciences (See 51.2010-Pharmaceutical sciences)
- pharmaceutics and drug design (See 51.2003-Pharmaceutics and drug design (MS, MSc, PhD))
- pharmacology (See 26.1001-Pharmacology)

51.2005 Natural products chemistry and pharmacognosy (MS, MSc, PhD)

This instructional program class comprises any program that focuses on the scientific study of biologically active compounds found in naturally occurring sources such as plants, animals, and microbes and their use and/or modification as medicinal substances. These programs include courses in medicinal chemistry, organic medicinals, pharmacological therapeutics, pharmacokinetics, molecular biology, structural chemistry, enzymes, nucleic acids, economic botany, ethnobotany, bioprospecting, bioassay, compound identification and isolation, mass spectrometry, and analytical instrumentation and techniques.

Illustrative example(s)

- natural products chemistry
- natural products chemistry and pharmacognosy
- pharmacognosy

51.2006 Clinical and industrial drug development (MS, MSc, PhD)

This instructional program class comprises any program that focuses on the scientific application of pharmacology, pharmaceutics, and industrial management to the development, production, marketing, and distribution of pharmaceutical products. These programs include courses in industrial microbiology, plasmids, expression vectors, protein chemistry, assay and evaluation, drug synthesis and purification, quality control, industrial management, production security, patent procedures, intellectual property regulations and issues, patent enforcement and defence, and research design and testing.

Illustrative example(s)

- clinical and industrial drug development
- clinical drug development
- industrial drug development

Exclusion(s)

- pharmaceutics and drug design (See 51.2003-Pharmaceutics and drug design (MS, MSc, PhD))

51.2007 Pharmacoeconomics/pharmaceutical economics (MS, MSc, PhD)

This instructional program class comprises any program that focuses on the application of economics and policy analysis to the study of the relationship of pharmacy services and pharmaceutical processes and products to the health care system and their impact on health care organizations. These programs include courses in health economics, pharmacoeconomics, health care systems, health care organization and management, statistics and biostatistics, outcomes research, health care policy, pharmacy services, and pharmaceutical industry operations.

Illustrative example(s)

- pharmaceutical economics
- pharmacoeconomics

Exclusion(s)

- pharmaceutical sciences (See 51.2010-Pharmaceutical sciences)

51.2008 Clinical, hospital and managed care pharmacy (MS, MSc, PhD)

This instructional program class comprises any program that prepares individuals to deliver specialized pharmacy services and produce pharmaceutical products in clinical settings in conjunction with other health care professionals. These programs include courses in biostatistics; clinical pharmacokinetics; biopharmaceutics; neuropharmacology; pharmacodynamics; drug metabolism; clinical sampling and research design; drug delivery systems; chemotherapy; pharmacotherapy; clinical pharmacy management; medical and research ethics; and applications to nuclear, nutrition support, oncology, psychiatric, and therapeutic pharmacy.

Illustrative example(s)

- clinical pharmacy

- clinical, hospital, and managed care pharmacy
- hospital pharmacy
- managed care pharmacy

51.2009 Industrial and physical pharmacy and cosmetic sciences (MS, MSc, PhD)

This instructional program class comprises any program that focuses on the application of pharmaceutical sciences and pharmacy to the study of pharmaceuticals production and distribution, and prepares individuals to manage pharmaceutical industry operations. These programs include courses in pharmacoeconomics, industrial management, operations management, preformulation evaluation, product formulation/reformulation, drug product development, stability testing, dosage design, pilot scale-up, drug marketing, quality control, drug information, and legal and regulatory affairs.

Illustrative example(s)

- cosmetic chemist
- cosmetic sciences
- industrial and physical pharmacy and cosmetic sciences
- industrial pharmacy
- industrial pharmacy and cosmetic sciences
- physical pharmacy and cosmetic sciences

Exclusion(s)

- clinical and industrial drug development (See 51.2006-Clinical and industrial drug development (MS, MSc, PhD))
- cosmetology (See 12.0401-Cosmetology/cosmetologist, general)
- pharmaceuticals and drug design (See 51.2003-Pharmaceuticals and drug design (MS, MSc, PhD))

51.2010 Pharmaceutical sciences

This instructional program class comprises any program that focuses on the basic sciences that underlie drugs and drug therapy and that prepares individuals for further study and/or careers in pharmaceutical science and research, pharmaceutical administration and sales, biotechnology, drug manufacturing, regulatory affairs, and related fields. These programs include courses in mathematics, biology, chemistry, physics, statistics, pharmaceuticals, pharmacology and toxicology, dosage formulation, manufacturing, quality assurance, and regulations.

Illustrative example(s)

- pharmaceutical science
- pharmaceutical sciences

Exclusion(s)

- medicinal and pharmaceutical chemistry (See 51.2004-Medicinal and pharmaceutical chemistry (MS, MSc, PhD))
- pharmaceutical economics (See 51.2007-Pharmacoeconomics/pharmaceutical economics (MS, MSc, PhD))
- pharmaceutical engineering (See 14.0799-Chemical engineering, other)
- pharmaceutical marketing and management (See 51.2011-Pharmaceutical marketing and management)
- pharmaceutical technology (See 51.1099-Clinical/medical laboratory science/research and allied professions, other)
- pharmacy (See 51.2001-Pharmacy (PharmD, BS, BSc, BPharm))

51.2011 Pharmaceutical marketing and management

This instructional program class comprises any program that combines the study of basic and pharmaceutical sciences with marketing and management studies; and that prepares individuals for careers in pharmaceutical sales, marketing, management, and related fields within the health care industry. These programs include courses in biology, chemistry, pharmaceuticals, pharmacology, health care systems, issues and structure of pharmaceutical

industry, management, pharmaceutical marketing, pharmaceutical and medical product management, and legal issues.

Illustrative example(s)

- pharmaceutical and medical product management
- pharmaceutical marketing
- pharmaceutical marketing and management

Exclusion(s)

- health management (See 51.0701-Health/health care administration/management)
- health services management (See 51.2211-Health services administration)
- management (See 52.0201-Business administration and management, general)
- marketing (See 52.1401-Marketing/marketing management, general)
- pharmaceutical sciences (See 51.2010-Pharmaceutical sciences)
- retail management (See 52.0212-Retail management)
- sales management (See 52.1804-Selling skills and sales operations)

51.2099 Pharmacy, pharmaceutical sciences and administration, other

This instructional program class comprises any program not listed above that relates to Pharmacy, pharmaceutical sciences and administration.

Illustrative example(s)

- community pharmacy
- other pharmacy, pharmaceutical sciences and administration

51.22 Public health

This subseries comprises instructional program classes 51.2201 to 51.2299.

51.2201 Public health, general (BPH, MPH, DPH)

This instructional program class comprises any program that generally prepares individuals to plan, manage, and evaluate public health care services; to function as public health professionals in public agencies, the private sector, and other settings; and to provide leadership in the field of public health. These programs include courses in epidemiology, biostatistics, public health principles, preventive medicine, health policy and regulations, health care services and related administrative functions, public health law enforcement, health economics and budgeting, public communications, and professional standards and ethics.

Illustrative example(s)

- doctorate of public health (DPH)
- master of public health (MPH)
- public health (MPH, DPH)
- public health (Master's degree)
- public health (PhD)

Exclusion(s)

- dental public health and education (Cert., MS, MSc, MPH, PhD, DPH) (See 51.0504-Dental public health and education (Cert., MS, MSc, MPH, PhD, DPH))
- health behaviour (See 51.2212-Behavioural aspects of health)
- health communication (See 09.0905-Health communication)
- international public health/international health (See 51.2210-International public health/international health)
- public health education and promotion (See 51.2207-Public health education and promotion)
- public health genetics (See 51.2214-Public health genetics)
- public health medicine - residency (See 61.2301-Public health and general preventive medicine residency programs)
- public health nurse (See 51.3811-Public health/community nurse/nursing)

51.2202 Environmental health

This instructional program class comprises any program that focuses on the application of environmental sciences, public health, the biomedical sciences, and environmental toxicology to the study of environmental factors affecting human health, safety, and related ecological issues, and prepares individuals to function as professional environmental health specialists. These programs include courses in epidemiology, biostatistics, toxicology, public policy analysis, public management, risk assessment, communications, environmental law, occupational health and safety emergency response, and applications such as air quality, food protection, radiation protection, solid and hazardous waste management, water quality, soil quality, noise abatement, housing quality, and environmental control of recreational areas.

Illustrative example(s)

- environmental health
- environmental public health

Exclusion(s)

- environmental engineering (See 14.1401-Environmental/environmental health engineering)
- occupational health and safety technology (See 15.0701-Occupational safety and health technology/technician)
- public health (MPH, DPH) (See 51.2201-Public health, general (BPH, MPH, DPH))

51.2205 Health/medical physics

This instructional program class comprises any program that focuses on the application of physics, nuclear science, and engineering physics to diagnostic, treatment, and therapeutic processes and public health protection. These programs include courses in radiation biophysics, biophysics, health effects of natural and artificially induced radiation, hazard evaluation, environmental radioactivity, nuclear physics, engineering physics, radiobiology, medical radiology, calibration and dosage theory, computer applications and medical informatics, and specific research problems.

Illustrative example(s)

- biomedical physics
- health physics
- medical physics

51.2206 Occupational health and industrial hygiene

This instructional program class comprises any program that prepares public health specialists to monitor and evaluate health and related safety standards in industrial, commercial, and government workplaces and facilities. These programs include courses in occupational health and safety standards and regulations; health-related aspects of various occupations and work environments; health hazard testing and evaluation; test equipment operation and maintenance; industrial toxicology; worker health and safety education; and the analysis and testing of job-related equipment, behaviour practices, and protective devices and procedures.

Illustrative example(s)

- industrial hygiene
- occupational health and industrial hygiene

Exclusion(s)

- environmental health (See 51.2202-Environmental health)
- occupational health and safety technology (See 15.0701-Occupational safety and health technology/technician)
- public health (MPH, DPH) (See 51.2201-Public health, general (BPH, MPH, DPH))

51.2207 Public health education and promotion

This instructional program class comprises any program that focuses on the application of educational and communications principles and methods to the promotion of preventive health measures and the education of targeted populations on health issues, and prepares individuals to function as public health educators and health promotion specialists. These programs include courses in human development; health issues across the lifespan; population-specific health issues; principles and methods of public health education; administration of health education campaigns and programs; evaluation methods; public communications; and applications to specific public health subjects and issues.

Illustrative example(s)

- public health education
- public health education and promotion

Exclusion(s)

- cannabis-related public health education (See 51.2280-Cannabis-related public health^{CAN})
- community health science (See 51.2208-Community health and preventive medicine)
- environmental health (See 51.2202-Environmental health)
- health behaviour (See 51.2212-Behavioural aspects of health)
- health communication (See 09.0905-Health communication)
- health professions education (See 51.3202-Health professions education)
- public health (MPH, DPH) (See 51.2201-Public health, general (BPH, MPH, DPH))

51.2208 Community health and preventive medicine

This instructional program class comprises any program that prepares public health specialists to plan and manage health services in local community settings, including the coordination of related support services, government agencies, and private resources. These programs include courses in public health, community health services and delivery, health behaviour and cultural factors, local government operations, human services, health communication and promotion, health services administration in local settings, environmental health, preventive and comparative medicine, epidemiology, biostatistics, family and community health, and applicable laws and regulations.

Illustrative example(s)

- community health and preventive medicine

Exclusion(s)

- public health (MPH, DPH) (See 51.2201-Public health, general (BPH, MPH, DPH))
- public health education and promotion (See 51.2207-Public health education and promotion)
- public health nurse (See 51.3811-Public health/community nurse/nursing)

51.2209 Maternal and child health

This instructional program class comprises any program that focuses on the application of public health specializations, public policy studies, and the social and behavioural sciences to issues of health affecting women, children, and families; and prepares individuals to function as maternal and child health specialists. These programs include courses in research design and testing, program evaluation, public policy analysis, public finance, economics of health care, community health, family development and dynamics, women's studies, social psychology, fetal and child development, biostatistics, health education and promotion, nutrition, neonatal development, psychology, and social services delivery.

Illustrative example(s)

- maternal and child health

51.2210 International public health/international health

This instructional program class comprises any program that focuses on the application of public health specializations, the social and behavioural sciences, and policy and communications methods to the study of health problems in low- and middle-income countries and regions, and prepares individuals to function as professional international health specialists. These programs include courses in health education and promotion, research design and evaluation, infectious disease epidemiology, international health policy and management, public nutrition and food security, information systems, program evaluation, medical anthropology, international communication, behavioural sciences, maternal and child health, demography and population policy, and health care finance and economics.

Illustrative example(s)

- international health
- international public health
- international public health/international health

Exclusion(s)

- health policy (See 44.0503-Health policy analysis)
- international public policy (See 44.0504-International public policy analysis)

51.2211 Health services administration

This instructional program class comprises any program that focuses on the application of policy analysis, public administration, business management, and communications to the planning and management of health services delivery systems in the public and private sectors, and prepares individuals to function as health services administrators and managers. These programs include courses in health systems planning, public health organization and management, public health policy formulation and analysis, finance, business and operations management, economics of health care, organizational and health communications, marketing, human resources management, and public health laws and regulations.

Illustrative example(s)

- health services administration
- health services management

Exclusion(s)

- cannabis-related public health (See 51.2280-Cannabis-related public health^{CAN})
- health care administration (See 51.0701-Health/health care administration/management)
- hospital administration (See 51.0702-Hospital and health care facilities administration/management)
- pharmaceutical marketing and management (See 51.2011-Pharmaceutical marketing and management)

51.2212 Behavioural aspects of health

This instructional program class comprises any program that focuses on the biological, behavioural, and socio-cultural determinants of health and health behaviour, and the interventions and policies aimed at improving community and population health. These programs include courses in behavioural sciences, public health practice and policy, human services, and research methods.

Illustrative example(s)

- behavioural aspects of health
- health and social behaviour
- health behaviour

Exclusion(s)

- applied behaviour analysis (See 42.2814-Applied behaviour analysis)
- behavioural science (See 30.1701-Behavioural sciences)
- neurobiology and behaviour (See 26.1504-Neurobiology and behaviour)

- public health (MPH, DPH) (See 51.2201-Public health, general (BPH, MPH, DPH))
- public health education and promotion (See 51.2207-Public health education and promotion)

51.2213 Patient safety and healthcare quality

This instructional program class comprises any program that focuses on the application of transformative mechanisms and evidence-based protocols to reduce preventable patient harm and improve clinical outcomes. These programs include courses in healthcare quality, patient safety, research methods, program evaluation, epidemiology, legal and regulatory compliance, systems thinking, human factors engineering, and risk management.

Illustrative example(s)

- healthcare quality and patient safety
- patient safety and healthcare quality

51.2214 Public health genetics

This instructional program class comprises any program that prepares individuals to respond to the complex social, legal, ethical, and public health policy implications generated by genetic research. These programs include courses in biochemical genetics of complex diseases, bioethics, chromosomes and human disease, genetic counselling, genetic epidemiology, gene mapping, human population genetics, and the molecular basis of human inherited disease.

Illustrative example(s)

- public health genetics

Exclusion(s)

- medical genetics (See 26.0806-Human/medical genetics)
- public health (MPH, DPH) (See 51.2201-Public health, general (BPH, MPH, DPH))

51.2280 Cannabis-related public health^{CAN}

This instructional program class comprises any program that prepares individuals to plan, manage, and evaluate public health care services related to cannabis; and to function as cannabis public health professionals in public agencies, the private sector, and other settings. These programs include courses in public health principles, preventive medicine, epidemiology and biostatistics; cannabis health policy, economics and budgeting; public communications; administration of cannabis health education campaigns and programs; community health services and delivery; cannabis laws, regulations and law enforcement; and professional standards and ethics.

Illustrative example(s)

- cannabis in community health
- cannabis in public health
- cannabis in public health education
- cannabis-related community health
- cannabis-related public health
- cannabis-related public health education

Exclusion(s)

- cannabis abuse counselling (See 51.1580-Cannabis abuse/cannabis addiction counselling^{CAN})
- cannabis education for healthcare professionals (See 51.9980-Cannabis-related health professions and clinical sciences, other^{CAN})
- cannabis-related public health policy (See 44.0580-Cannabis-related public policy analysis^{CAN})
- health services administration (See 51.2211-Health services administration)
- public health education and promotion (See 51.2207-Public health education and promotion)

51.2299 Public health, other

This instructional program class comprises any program not listed above that relates to Public health.

Illustrative example(s)

- community care licensing officer
- other public health
- public health inspection
- public health inspector

Exclusion(s)

- food inspection (See 01.0401-Agricultural and food products processing, general)

51.23 Rehabilitation and therapeutic professions

This subseries comprises instructional program classes 51.2300 to 51.2399.

51.2300 Rehabilitation and therapeutic professions, general

This instructional program class comprises any program that prepares individuals to work with people who have learning disabilities, mental illness, and physical disabilities in a clinical, educational, or institutional setting. These programs include courses in abnormal psychology, assistive technology, case management, counselling techniques, cultural diversity, disability assessment and measurement, ethics, psychological and physiological aspects of disability, rehabilitation services, rehabilitation science, and vocational counselling.

Illustrative example(s)

- rehabilitation therapist
- rehabilitation therapy

Exclusion(s)

- rehabilitation assistant (RA) (See 51.0817-Rehabilitation assistant)
- rehabilitation counselling (See 51.2310-Vocational rehabilitation counselling/counsellor)
- rehabilitation science (See 51.2314-Rehabilitation science)

51.2301 Art therapy/therapist

This instructional program class comprises any program that prepares individuals, in consultation with other rehabilitation team members or in private practice, to use drawing and other art media forms to assess, treat, and rehabilitate individuals with mental, emotional, developmental, or physical disorders. These programs include courses in art, history and theory of art therapy, art therapeutic techniques, psychopathology, patient assessment and diagnosis, cultural diversity issues, legal and ethical practice issues, and professional standards and regulations.

Illustrative example(s)

- art therapist
- art therapy

Exclusion(s)

- arts in medicine (See 51.3206-Arts in medicine/health)
- pre-art therapy (See 51.1110-Pre-art therapy studies)

51.2302 Dance therapy/therapist

This instructional program class comprises any program that prepares individuals, in consultation with other rehabilitation team members or in private practice, to use the therapeutic application of creative dance movement to assist in promoting client rehabilitation and physical, emotional, and mental health. These programs include courses in neuroanatomy, personality development, movement and motor behaviour, psychology, dance, creative

expression modalities, improvisation, group psychology and leadership, client evaluation and supervision, dance therapy practice, and professional standards and ethics.

Illustrative example(s)

- dance therapist
- dance therapy

Exclusion(s)

- arts in medicine (See 51.3206-Arts in medicine/health)
- movement therapy (See 51.3601-Movement therapy)

51.2305 Music therapy/therapist

This instructional program class comprises any program that prepares individuals, in association with a rehabilitation team or in private practice, to use music in therapeutic relationships to address the physical, psychological, cognitive, emotional, and social needs of clients. These programs include courses in music theory and performance, human growth and development, biomedical sciences, abnormal psychology, disabling conditions, patient assessment and diagnosis, treatment plan development and implementation, clinical evaluation, record keeping, and professional standards and ethics.

Illustrative example(s)

- music therapist
- music therapy

Exclusion(s)

- arts in medicine (See 51.3206-Arts in medicine/health)

51.2306 Occupational therapy/therapist

This instructional program class comprises any program that prepares individuals to assist patients limited by physical, cognitive, psychosocial, mental, developmental, and learning disabilities, as well as adverse environmental conditions, to maximize their independence and maintain optimum health through a planned mix of acquired skills, performance motivation, environmental adaptations, assistive technologies, and physical agents. These programs include courses in the basic medical sciences, psychology, sociology, patient assessment and evaluation, standardized and non-standardized tests and measurements, assistive and rehabilitative technologies, ergonomics, environmental health, special education, vocational counselling, health education and promotion, and professional standards and ethics.

Illustrative example(s)

- occupational biomechanics
- occupational therapist
- occupational therapy

Exclusion(s)

- biomechanics (See 26.0913-Biomechanics)
- ergonomics engineering (See 14.3501-Industrial engineering)
- occupational therapist assistant (See 51.0803-Occupational therapist assistant)
- pre-occupational therapy studies (See 51.1107-Pre-occupational therapy studies)

51.2307 Orthotist/prosthetist

This instructional program class comprises any program that prepares individuals, in consultation with physicians and other therapists, to design and fit orthoses for patients with disabling conditions of the limbs and/or spine, and prostheses for patients who have partial or total absence of a limb or significant superficial deformity. These programs include courses in biomechanics, gait analysis, pathomechanics, kinesiology, pathology, neuroanatomy, materials science, diagnostic imaging, patient analysis and measurement, impression taking, model rectification,

assistive/restorative technology and engineering applications, product finishing, diagnostic and definitive fitting and alignment, power devices, postoperative management, and patient counselling and follow-up.

Illustrative example(s)

- orthotist
- pedorthics
- pedorthist
- prosthetist

Exclusion(s)

- orthopedic technician (See 51.0923-Orthopedic technology/technician)
- orthoptics (See 51.1804-Orthoptics/orthoptist)

51.2308 Physical therapy/therapist

This instructional program class comprises any program that prepares individuals to evaluate, examine, diagnose, and alleviate physical functional impairments and limitations caused by injury or disease through the design and implementation of therapeutic interventions to promote fitness and health. These programs include courses in anatomy, behavioral sciences, biology, biomechanics, biophysical agents, care plan development and documentation, cellular histology, clinical evaluation and measurement, clinical reasoning, communication, exercise physiology, kinesiology, neuroscience, pharmacology, pathology, physiology, professional standards and ethics, rehabilitation psychology, and therapeutic exercise.

Illustrative example(s)

- physical rehabilitation therapist (PRT)
- physical therapist
- physical therapy
- physiotherapist
- physiotherapy

Exclusion(s)

- kinesiology (See 31.0505-Exercise science and kinesiology)
- kinesiotherapy (See 51.2311-Kinesiotherapy/kinesiotherapist)
- physical medicine and rehabilitation - residency (See 61.2001-Physical medicine and rehabilitation residency programs)
- physical therapy aide (See 51.2605-Physical therapy technician/aide)
- physical therapy assistant (See 51.0806-Physical therapy assistant)
- physical therapy technician (See 51.2605-Physical therapy technician/aide)
- pre-physical therapy studies (See 51.1109-Pre-physical therapy studies)
- rehabilitation aide (See 51.2604-Rehabilitation aide)
- rehabilitation science (See 51.2314-Rehabilitation science)
- therapeutic recreation (See 51.2309-Therapeutic recreation/recreational therapy)

51.2309 Therapeutic recreation/recreational therapy

This instructional program class comprises any program that prepares individuals to plan, organize, and direct recreational activities designed to promote health and well-being for patients who are physically, mentally, or emotionally disabled. These programs include courses in the foundations of therapeutic recreation, leisure education and counselling, program planning, therapeutic recreational modalities, basic anatomy and physiology, psychology, medical terminology, human growth and development, patient observation and evaluation, special needs populations, and professional standards and ethics.

Illustrative example(s)

- recreation facilitator for older adults
- recreation facilitator for special needs
- recreational therapy

- therapeutic recreation

Exclusion(s)

- physical therapy (See 51.2308-Physical therapy/therapist)
- play therapy (See 51.2317-Play therapy/therapist)
- recreation facilitator (See 31.0101-Parks, recreation, and leisure studies)

51.2310 Vocational rehabilitation counselling/counsellor

This instructional program class comprises any program that prepares individuals to counsel and assist disabled individuals and recovering patients in order to achieve their greatest physical, mental, social, educational, and vocational potential. These programs include courses in patient evaluation and testing, rehabilitation program planning, patient support services and referral, job analysis, adjustment psychology, rehabilitation services provision, patient counselling and education, applicable law and regulations, and professional standards and ethics.

Illustrative example(s)

- rehabilitation counselling
- vocational rehabilitation counselling
- vocational rehabilitation counsellor

Exclusion(s)

- counselling psychology (See 42.2803-Counselling psychology)
- health psychology (See 42.2810-Health/medical psychology)
- rehabilitation science (See 51.2314-Rehabilitation science)
- rehabilitation therapy (See 51.2300-Rehabilitation and therapeutic professions, general)

51.2311 Kinesiotherapy/kinesiotherapist

This instructional program class comprises any program that prepares individuals, under the direction of physicians, to treat the effects of disease, injury, and congenital disorders through therapeutic exercise and education. These programs include courses in human anatomy, human physiology, kinesiology, biomechanics, therapeutic exercise and adapted physical education, human growth and development, motor learning and performance, testing and measurement, first aid and cardiopulmonary resuscitation, psychology, rehabilitation procedures, patient assessment and management, and professional standards and ethics.

Illustrative example(s)

- kinesiotherapist
- kinesiotherapy

Exclusion(s)

- kinesiology (See 31.0505-Exercise science and kinesiology)
- physical therapy (See 51.2308-Physical therapy/therapist)

51.2312 Assistive/augmentative technology and rehabilitation engineering

This instructional program class comprises any program that prepares individuals to apply the principles of psychology, engineering, and occupational therapy to the design and implementation of technological interventions and systems to promote patient rehabilitation and function. These programs include courses in ergonomics, seating and mobility design, universal and near environment systems design, rehabilitation research, rehabilitation biomechanics, access and communications design, microprocessor-based technologies, neurological trauma, standards and testing, and service delivery management.

Illustrative example(s)

- assistive technology and rehabilitation engineering
- assistive/augmentative technology and rehabilitation engineering
- augmentative technology and rehabilitation engineering

- rehabilitation engineering

Exclusion(s)

- physical medicine and rehabilitation - residency (See 61.2001-Physical medicine and rehabilitation residency programs)

51.2313 Animal-assisted therapy

This instructional program class comprises any program that prepares health and human service professionals to integrate the use of animals into their treatment practices in order to facilitate change in people with mental and physical disabilities. These programs include courses in psychology, psychology of disabilities, animal behaviour, animal training, the human-animal bond, integration of animals into therapeutic settings, and ethical and cultural issues.

Illustrative example(s)

- animal-assisted therapy
- equine-assisted therapy

Exclusion(s)

- animal training (See 01.0505-Animal training)
- equine care (See 01.0507-Equestrian/equine studies)

51.2314 Rehabilitation science

This instructional program class comprises any program that focuses on human function, disability, and rehabilitation from the perspectives of the health sciences, social sciences, psychology, engineering, and related fields. These programs include courses in psychological, social, and cultural aspects of disability and rehabilitation; sensory and motor function and dysfunction; biomechanics and kinesiology; assistive technology; rehabilitation instrumentation and methodology; statistics; and health and rehabilitation policy.

Illustrative example(s)

- rehabilitation science

Exclusion(s)

- pediatric rehabilitation medicine - fellowship (See 61.2003-Pediatric rehabilitation medicine fellowship programs)
- physical rehabilitation therapist (PRT) (See 51.2308-Physical therapy/therapist)
- rehabilitation aide (See 51.2604-Rehabilitation aide)
- rehabilitation assistant (RA) (See 51.0817-Rehabilitation assistant)
- rehabilitation therapy (See 51.2300-Rehabilitation and therapeutic professions, general)
- vocational rehabilitation counselling (See 51.2310-Vocational rehabilitation counselling/counsellor)

51.2315 Drama therapy/therapist

This instructional program class comprises any program that prepares individuals, in association with a rehabilitation team or in private practice, to use dramatic play, theater, role play, psychodrama, and dramatic ritual in therapeutic relationships to address the physical, psychological, cognitive, emotional, and social needs of clients. These programs include courses in drama theory and performance, human growth and development, biomedical sciences, abnormal psychology, disabling conditions, patient assessment and diagnosis, treatment plan development and implementation, clinical evaluation, record-keeping, and professional standards and ethics.

Illustrative example(s)

- drama therapist
- drama therapy

Exclusion(s)

- arts in medicine (See 51.3206-Arts in medicine/health)
- drama (See 50.0501-Drama and dramatics/theatre arts, general)

51.2316 Horticulture therapy/therapist

This instructional program class comprises any program that focuses on plant science and horticulture techniques to achieve measurable physical and mental health outcomes for individuals with physical or mental challenges. These programs include courses in abnormal psychology, adult development and aging, botany, facilities design, horticultural therapy, plant pathology, people-plant relationships, and psychology.

Illustrative example(s)

- horticultural therapist
- horticultural therapy
- horticulture therapist
- horticulture therapy

Exclusion(s)

- horticulture (See 01.0601-Applied horticulture/horticulture operations, general)

51.2317 Play therapy/therapist

This instructional program class comprises any program that prepares individuals to be a Registered Play Therapist (RPT) or a School Based-Registered Play Therapist (SB-RPT). These programs include courses in child development, theories of personality, psychotherapy, child and adolescent psychopathology, and ethics.

Illustrative example(s)

- play therapist
- play therapy
- registered play therapist (RPT)
- school based registered play therapist (SB-RPT)

Exclusion(s)

- recreational therapy (See 51.2309-Therapeutic recreation/recreational therapy)

51.2399 Rehabilitation and therapeutic professions, other

This instructional program class comprises any program not listed above that relates to Rehabilitation and therapeutic professions.

Illustrative example(s)

- adventure based counselling
- ergonomic studies
- other rehabilitation and therapeutic professions

51.26 Health aides/attendants/orderlies

This subseries comprises instructional program classes 51.2601 to 51.2699.

51.2601 Health aide

This instructional program class comprises any program that prepares individuals to provide routine care and assistance to patients under the direct supervision of other health care professionals, and/or to perform routine maintenance and general assistance in health care facilities and laboratories.

Illustrative example(s)

- health aide

- health care aide
- health care attendant
- orderly

Exclusion(s)

- nurse aide (See 51.3902-Nursing assistant/aide and patient care assistant/aide)
- personal support worker (PSW) (See 51.2602-Home health aide/home attendant)
- social services worker (See 44.0000-Human services, general)

51.2602 Home health aide/home attendant

This instructional program class comprises any program that prepares individuals to provide routine care and support services for homebound disabled, recovering, or elderly people. These programs include courses in basic nutrition, home sanitation, infection control, first aid, taking vital signs, personal hygiene, interpersonal communication skills, supervised home management, emergency recognition and referral, geriatric care, and legal and ethical responsibilities.

Illustrative example(s)

- home care aide
- home care attendant
- home health aide
- home support aide
- home support attendant
- personal support worker (PSW)
- resident care aide
- resident care attendant
- special care aide

Exclusion(s)

- DSW (See 19.0710-Developmental services worker)
- health aide (See 51.2601-Health aide)
- nurse aide (See 51.3902-Nursing assistant/aide and patient care assistant/aide)
- social services worker (See 44.0000-Human services, general)

51.2603 Medication aide

This instructional program class comprises any program that prepares individuals to administer prescribed medications; observe and report patient reactions and side effects; and perform related emergency and recording duties under the supervision of nurses and/or physicians. These programs include courses in basic anatomy and physiology, common medications and their effects, taking vital signs, oxygen administration, medication administration and application, record keeping, and patient observation.

Illustrative example(s)

- medication aide

51.2604 Rehabilitation aide

This instructional program class comprises any program that prepares individuals to assist in rehabilitation services under the supervision of occupational therapists, speech-language pathologists, and other therapeutic professionals, and to perform routine functions in support of rehabilitation. These programs include courses in roles and responsibilities of rehabilitation providers, basic function of the human body, disabling conditions, therapeutic skills, client management, and communication skills.

Illustrative example(s)

- rehabilitation aide

Exclusion(s)

- pediatric rehabilitation medicine - fellowship (See 61.2003-Pediatric rehabilitation medicine fellowship programs)
- physical rehabilitation therapist (PRT) (See 51.2308-Physical therapy/therapist)
- rehabilitation assistant (RA) (See 51.0817-Rehabilitation assistant)
- rehabilitation science (See 51.2314-Rehabilitation science)

51.2605 Physical therapy technician/aide

This instructional program class comprises any program that prepares individuals to assist in rehabilitation services under the supervision of physical therapists, and to perform routine functions in support of physical therapy and rehabilitation. These programs include courses in applied kinesiology, basic function of the human body, communication skills, principles and procedures of physical therapy, physical therapy modalities, and professional ethics.

Illustrative example(s)

- physical therapy aide
- physical therapy attendant
- physical therapy technician
- physiotherapy aide
- physiotherapy attendant
- physiotherapy technician

Exclusion(s)

- physical therapist (See 51.2308-Physical therapy/therapist)
- physical therapy assistant (See 51.0806-Physical therapy assistant)
- physiotherapist assistant (See 51.0806-Physical therapy assistant)

51.2699 Health aides/attendants/orderlies, other

This instructional program class comprises any program not listed above that relates to Health aides/attendants/orderlies.

Illustrative example(s)

- other health aides/attendants/orderlies

51.27 Medical illustration and informatics

This subseries comprises instructional program classes 51.2703 to 51.2799.

51.2703 Medical illustration/medical illustrator

This instructional program class comprises any program that prepares individuals to apply the principles and techniques of art and computer-assisted imaging, graphics, and animation to create visual materials to facilitate the recording and dissemination of biomedical knowledge for educational, research, and clinical purposes. These programs include courses in anatomy, physiology, pathology, histology, embryology, neuroanatomy, medical terminology, artistic media and techniques, illustration techniques, three-dimensional modelling, prosthetics, data display design, exhibit design and production, medical photography, multimedia, computer graphics and animation, digital imaging, business management, production technology, and instructional design.

Illustrative example(s)

- biomedical animation
- biomedical communications
- medical illustration
- medical illustrator

Exclusion(s)

- digital animation (See 10.0304-Animation, interactive technology, video graphics and special effects)
- educational media (See 13.0501-Educational/instructional technology)
- illustration (See 50.0410-Illustration)
- medical informatics (See 51.2706-Medical informatics)
- X-ray technician (See 51.0911-Medical radiation technologist/radiographer)

51.2706 Medical informatics

This instructional program class comprises any program that focuses on the application of computer science and software engineering to medical research and clinical information technology support, and the development of advanced imaging, database, and decision systems. These programs include courses in computer science, health information systems architecture, medical knowledge structures, medical language and image processing, quantitative medical decision modelling, imaging techniques, electronic medical records, medical research systems, clinical decision support, and informatics aspects of specific research and practice problems.

Illustrative example(s)

- biomedical informatics
- health informatics
- medical informatics

Exclusion(s)

- bioinformatics (See 26.1103-Bioinformatics)
- computational biology (See 26.1104-Computational biology)
- medical illustration (See 51.2703-Medical illustration/medical illustrator)

51.2799 Medical illustration and informatics, other

This instructional program class comprises any program not listed above that relates to Medical illustration and informatics.

Illustrative example(s)

- other medical illustration and informatics

51.31 Dietetics and clinical nutrition services

This subseries comprises instructional program classes 51.3101 to 51.3199.

51.3101 Dietetics/dietitian (RD)

This instructional program class comprises any program that prepares individuals to integrate and apply the principles of the food and nutrition sciences, human behaviour, and the biomedical sciences to design and manage effective nutrition programs in a variety of settings. These programs include courses in human nutrition; nutrient metabolism; the role of foods and nutrition in health promotion and disease prevention; planning and directing food service activities; diet and nutrition analysis and planning; supervision of food storage and preparation; client education; and professional standards and regulations.

Illustrative example(s)

- dietetics
- dietitian
- registered dietitian (RD)

Exclusion(s)

- food and nutrition (See 19.0501-Foods, nutrition and wellness studies, general)
- food science (See 01.1001-Food science)
- human nutrition (See 19.0504-Human nutrition)
- nutrition science (See 30.1901-Nutrition sciences)

- nutritionist (See 51.3102-Clinical nutrition/nutritionist)

51.3102 Clinical nutrition/nutritionist

This instructional program class comprises any program that prepares individuals to apply the principles of dietetics and the biomedical and nutrition sciences to design and manage effective nutrition programs as part of clinical treatment and therapy programs, and to manage health care facility food services. These programs include courses in human nutrition, nutrient metabolism, the role of foods and nutrition in health promotion and disease prevention, nutrition as a treatment regime, planning and directing hospital food service programs, diet and nutrition analysis and planning, supervision of food storage and preparation, special diets, client education, and professional standards and regulations.

Illustrative example(s)

- clinical nutrition
- nutritionist

Exclusion(s)

- food science (See 01.1001-Food science)
- human nutrition (See 19.0504-Human nutrition)
- nutrition science (See 30.1901-Nutrition sciences)
- registered dietitian (RD) (See 51.3101-Dietetics/dietitian (RD))

51.3103 Dietetic technician (DTR)

This instructional program class comprises any program that prepares individuals, under the supervision of registered dietitians and nutritionists, to implement nutritional and dietetic plans and provide direct client and patient services. These programs include courses in human nutrition, client interviewing and record keeping, dietary planning, food preparation and safety, food worker supervision, food service establishment monitoring and inspection, and applicable procedures and regulations.

Illustrative example(s)

- dietetic technician
- dietetic technician, registered (DTR)
- registered dietetic technician

Exclusion(s)

- dietary aide (See 51.3104-Dietitian assistant)
- human nutrition (See 19.0504-Human nutrition)
- nutrition science (See 30.1901-Nutrition sciences)
- registered dietitian (RD) (See 51.3101-Dietetics/dietitian (RD))

51.3104 Dietitian assistant

This instructional program class comprises any program that prepares individuals to assist registered dietitians in planning, preparing and serving meals to individuals with specific dietary needs. These programs include courses in equipment use, food preparation, diet regulations, food handling, safety and sanitary standards and administrative techniques and procedures.

Illustrative example(s)

- dietary aide
- dietary assistant
- dietitian assistant

Exclusion(s)

- dietetic technician (See 51.3103-Dietetic technician (DTR))
- human nutrition (See 19.0504-Human nutrition)
- nutrition science (See 30.1901-Nutrition sciences)

- registered dietitian (RD) (See 51.3101-Dietetics/dietitian (RD))

51.3199 Dietetics and clinical nutrition services, other

This instructional program class comprises any program not listed above that relates to Dietetics and clinical nutrition services.

Illustrative example(s)

- holistic nutrition
- other dietetics and clinical nutrition services

51.32 Health professions education, ethics, and humanities

This subseries comprises instructional program classes 51.3201 to 51.3299.

51.3201 Bioethics/medical ethics

This instructional program class comprises any program that focuses on the application of ethics, religion, jurisprudence, and the social sciences to the analysis of health care issues, clinical decision making, and research procedures. These programs include courses in philosophical ethics, moral value, medical sociology, theology, spirituality and health, policy analysis, decision theory, and applications to problems such as death and dying, therapeutic relationships, organ transplantation, human and animal subjects, reproduction and fertility, health care justice, cultural sensitivity, needs assessment, professionalism, conflict of interest, chaplaincy, and clinical or emergency procedures.

Illustrative example(s)

- bioethics
- medical ethics

Exclusion(s)

- applied ethics (See 38.0104-Applied and professional ethics)
- ethics (See 38.0103-Ethics)

51.3202 Health professions education

This instructional program class comprises any program that focuses on education and administration leadership skills for clinical educators across health professions and specialties. These programs include courses in academic leadership, assessment, clinical decision making, curriculum development, ethics, primary care education, program evaluation, research methods, and statistics.

Illustrative example(s)

- health professions education

Exclusion(s)

- health teacher education (See 13.1307-Health teacher education)
- medical education (See 61.0207-Medical education fellowship programs)
- nursing education (See 51.3203-Nursing education)
- public health education and promotion (See 51.2207-Public health education and promotion)

51.3203 Nursing education

This instructional program class comprises any program that prepares registered nurses to teach in academic and clinical settings, including staff development. These programs include courses in advanced nursing practice, nursing role development, curriculum and instruction, program and course design, clinical instruction, and evaluation of learning.

Illustrative example(s)

- nursing education

- nursing teaching
- teaching nursing

Exclusion(s)

- health occupations teacher education (See 13.1327-Health occupations teacher education)
- health professions education (See 51.3202-Health professions education)
- health teacher education (See 13.1307-Health teacher education)

51.3204 Medical/health humanities

This instructional program class comprises any program that focuses on the ethical, historical, literary, philosophical, and religious dimensions of medicine or health. These programs include courses in art, cultural studies, economics, ethics, history, literature, medical anthropology, philosophy, religion and spiritual thought, science and technology, visual art, and writing.

Illustrative example(s)

- health humanities
- medical humanities

Exclusion(s)

- history and philosophy of science and technology (See 54.0104-History and philosophy of science and technology)
- history of medicine (See 51.3205-History of medicine)
- humanities (See 24.0103-Humanities/humanistic studies)

51.3205 History of medicine

This instructional program class comprises any program that focuses on the historical evolution and socio-economic context of medical theories, education, practices, and technologies; and on the history of diseases, therapeutics, patients, and healers. These programs include courses in the concepts and methods of the historiography of medicine; the history of science, medicine, and technology; and of research methods in the history of medicine.

Illustrative example(s)

- history of medicine

Exclusion(s)

- history and philosophy of science and technology (See 54.0104-History and philosophy of science and technology)
- medical humanities (See 51.3204-Medical/health humanities)

51.3206 Arts in medicine/health

This instructional program class comprises any program that focuses on the design, implementation, and management of programs that use the visual and performing arts in support of health and wellness among diverse individuals and communities. These programs include courses in dance, literary arts, music, theatre, healthcare systems, program administration, and public health.

Illustrative example(s)

- arts in health
- arts in medicine

Exclusion(s)

- art therapy (See 51.2301-Art therapy/therapist)
- dance therapy (See 51.2302-Dance therapy/therapist)
- drama therapy (See 51.2315-Drama therapy/therapist)

- music therapy (See 51.2305-Music therapy/therapist)
- socially-engaged art (See 50.1101-Community/environmental/socially-engaged art)

51.3299 Health professions education, ethics, and humanities, other

This instructional program class comprises any program not listed above that relates to Health professions education, ethics, and humanities.

Illustrative example(s)

- other health professions education, ethics, and humanities

51.33 Alternative and complementary medicine and medical systems

This subseries comprises instructional program classes 51.3300 to 51.3399.

51.3300 Alternative and complementary medicine and medical systems, general

This instructional program class comprises any general program that focuses on the theories, science, and practice of alternative and complementary medicine and medical systems. These programs include courses in understanding acupuncture, herbal medicine, naturopathy, homeopathy, and other alternative and complementary medicine modalities; mind-body therapies; nutrition; comparison of conventional and alternative medicine; and medical ethics; and may include training in specific alternative and complementary medicine modalities.

Illustrative example(s)

- alternative and complementary medicine and medical systems
- alternative medicine
- complementary medicine

Exclusion(s)

- acupuncture and oriental medicine (See 51.3301-Acupuncture and oriental medicine)
- Ayurvedic medicine (See 51.3305-Ayurvedic medicine/Ayurveda)
- Chinese traditional medicine (See 51.3302-Traditional Chinese medicine and Chinese herbology)
- holistic health (See 51.3306-Holistic/integrative health)
- homeopathy (See 51.3304-Homeopathic medicine/homeopathy)
- naturopathic medicine (See 51.3303-Naturopathic medicine/naturopathy (ND, NMD))

51.3301 Acupuncture and oriental medicine

This instructional program class comprises any program that prepares individuals for the independent professional practice of acupuncture, a Chinese system of health care and healing based on the use of pulse diagnosis, acupuncture point selection, and needle insertion, as well as herbs and other Asian treatment modalities. These programs include courses in basic Western medical sciences, Asian philosophy, Chinese medical anatomy and physiology, Chinese herbs, diagnostic techniques, patient observation and communication, acupuncture points and point selection, acupuncture techniques, acupuncture treatment of disease, pain management, practice management, and professional standards and ethics.

Illustrative example(s)

- acupuncture
- acupuncture and oriental medicine
- acupuncturist
- Oriental medicine

Exclusion(s)

- acupressure (See 51.3502-Asian bodywork therapy)
- Chinese herbal medicine (See 51.3302-Traditional Chinese medicine and Chinese herbology)
- Chinese traditional medicine (See 51.3302-Traditional Chinese medicine and Chinese herbology)

51.3302 Traditional Chinese medicine and Chinese herbology

This instructional program class comprises any program that prepares individuals for the independent professional practice of Chinese herbal medicine, a system based on the use of nutrition, natural products, and prescribed medical formulae to treat imbalances in the state of bodily health as defined in the Nei Ching Su Wen and other authorities. These programs include courses in the basic Western medical sciences, history and theory of Chinese medicine, Chinese medical anatomy and physiology, Chinese herbology, herbal prescription preparation, herbal patent medicine, herbal pharmacology, Chinese internal medicine and gynecology, febrile diseases, food therapy, practice management, and professional standards and ethics.

Illustrative example(s)

- Chinese herbal medicine
- Chinese herbology
- Chinese medicine
- Chinese traditional medicine
- traditional Chinese medicine
- traditional Chinese medicine and Chinese herbology

Exclusion(s)

- alternative medicine (See 51.3300-Alternative and complementary medicine and medical systems, general)
- herbal medicine (See 51.3702-Herbalism/herbalist)
- oriental medicine (See 51.3301-Acupuncture and oriental medicine)

51.3303 Naturopathic medicine/naturopathy (ND, NMD)

This instructional program class comprises any program that prepares individuals for the independent professional practice of naturopathic medicine, a holistic therapeutic approach combining medical knowledge with non-invasive natural, homeopathic, and non-Western therapies and emphasizing disease prevention, wellness, and self-healing. These programs include courses in the basic medical sciences, epidemiology, neuroscience, biostatistics, public and community health, laboratory and clinical diagnosis, pharmacognosy, botanical medicine, homeopathy, principles of Oriental medicine and Ayurveda, manipulative therapy, naturopathic therapeutics, therapeutic nutrition, case analysis and management, philosophy of naturopathy, patient counselling, practice management, and professional standards and ethics.

Illustrative example(s)

- doctor of naturopathic medicine (NMD)
- doctor of naturopathy (ND)
- naturopath
- naturopathic doctor
- naturopathic medicine
- naturopathic physician
- naturopathy

Exclusion(s)

- allopathic medicine (See 51.1201-Medicine (MD))
- alternative medicine (See 51.3300-Alternative and complementary medicine and medical systems, general)
- holistic medicine (See 51.3306-Holistic/integrative health)

51.3304 Homeopathic medicine/homeopathy

This instructional program class comprises any program that prepares individuals for the independent professional practice of homeopathic medicine, a holistic therapeutic system using naturally occurring substances in highly diluted forms to mimic symptoms of illness and trigger autoimmune responses, based on the law of similars and other principles derived from the work of Samuel Hahnemann and others. These programs include courses in anatomy, physiology, pathology, toxicology, philosophy and theory of homeopathy, casetaking and case analysis,

repertory, materia medica, constitutional typing, proving, practice management, and professional standards and ethics.

Illustrative example(s)

- homeopathic medicine
- homeopathy

Exclusion(s)

- allopathic medicine (See 51.1201-Medicine (MD))
- alternative medicine (See 51.3300-Alternative and complementary medicine and medical systems, general)
- holistic medicine (See 51.3306-Holistic/integrative health)
- naturopathic medicine (See 51.3303-Naturopathic medicine/naturopathy (ND, NMD))

51.3305 Ayurvedic medicine/Ayurveda

This instructional program class comprises any program that prepares individuals for the independent professional practice of Ayurveda, a holistic health care system based on the use of dietary, lifestyle, spiritual, pharmacological and physical therapies to remove imbalances and restore health as defined in Vedic and other classical Sanskrit authorities in the Indian tradition. These programs include courses in Sanskrit; history, philosophy, and principles of Ayurveda; Ayurvedic pharmacology; anatomy and physiology; internal medicine; herbology; diagnostic techniques; patient examination and communication; therapeutic modalities; detoxification theory and practice; mind and body behaviour modification; Yoga; clinical pediatrics and gynecology; diet therapies; treatment of specific diseases; and professional standards and ethics.

Illustrative example(s)

- Ayurveda
- Ayurvedic medicine

Exclusion(s)

- alternative medicine (See 51.3300-Alternative and complementary medicine and medical systems, general)
- holistic medicine (See 51.3306-Holistic/integrative health)
- yoga instructor (See 51.3602-Yoga teacher training/yoga therapy)

51.3306 Holistic/integrative health

This instructional program class comprises any program that focuses on the holistic interconnectedness of physical, psychological, social, spiritual, and environmental well-being, and that integrates aspects of alternative, complementary, and conventional medicine to alleviate illness and promote, maintain, and optimize wellness. These programs include courses in anatomy and physiology, alternative diagnostic and healing methods, aromatherapy, biofeedback, energy medicine, environmental psychology, ethics, health coaching, herbal medicine, mind-body medicine, mindfulness, nutrition, somatic bodywork, and stress management.

Illustrative example(s)

- holistic health
- holistic medicine
- integrative health

Exclusion(s)

- alternative medicine (See 51.3300-Alternative and complementary medicine and medical systems, general)
- Ayurvedic medicine (See 51.3305-Ayurvedic medicine/Ayurveda)
- homeopathy (See 51.3304-Homeopathic medicine/homeopathy)
- naturopathic medicine (See 51.3303-Naturopathic medicine/naturopathy (ND, NMD))

51.3399 Alternative and complementary medicine and medical systems, other

This instructional program class comprises any program not listed above that relates to Alternative and complementary medicine and medical systems.

Illustrative example(s)

- other alternative and complementary medicine and medical systems

51.34 Alternative and complementary medical support services

This subseries comprises instructional program classes 51.3401 and 51.3499.

51.3401 Direct entry midwifery (LM, CPM)

This instructional program class comprises any program that prepares individuals to provide prenatal, natural birth, and immediate postpartum care to pregnant women in jurisdictions licensing direct (non-nursing) training for midwives. These programs include courses in basic obstetrics, women's health, fetal development, childbirth education, maternal nutrition and health, labour support, natural childbirth, postpartum support, prebirth counselling and risk screening, management of obstetric emergencies, patient referral, applicable regulations, and professional standards and ethics.

Illustrative example(s)

- direct entry midwife
- direct entry midwifery
- midwife
- midwifery

Exclusion(s)

- birthing and parenting knowledge and skills (not for credit) (See 34.0102-Birthing and parenting knowledge and skills (not for credit))
- maternity nursing (See 51.3806-Maternal/child health and neonatal nurse/nursing)
- nursing midwifery (See 51.3807-Nurse midwife/nursing midwifery)

51.3499 Alternative and complementary medical support services, other

This instructional program class comprises any program not listed above that relates to Alternative and complementary medical support services.

Illustrative example(s)

- other alternative and complementary medical support services

51.35 Somatic bodywork and related therapeutic services

This subseries comprises instructional program classes 51.3501 to 51.3599.

51.3501 Massage therapy/therapeutic massage

This instructional program class comprises any program that prepares individuals to provide relief and improved health and well-being to clients through the application of manual techniques for manipulating skin, muscles, and connective tissues. These programs include courses in Western (Swedish) massage; sports massage; myotherapy/trigger point massage; myofascial release; deep tissue massage; cranio-sacral therapy; reflexology; massage safety and emergency management; client counselling; practice management; applicable regulations; and professional standards and ethics.

Illustrative example(s)

- massage therapist
- massage therapy
- reflexology
- registered massage therapist (RMT)
- spa practitioner
- therapeutic massage

Exclusion(s)

- acupressure (See 51.3502-Asian bodywork therapy)
- kinesiology (See 31.0505-Exercise science and kinesiology)
- kinesiotherapy (See 51.2311-Kinesiotherapy/kinesiotherapist)
- master esthetician (See 12.0414-Master aesthetician/esthetician)
- somatic bodywork (See 51.3503-Somatic bodywork)

51.3502 Asian bodywork therapy

This instructional program class comprises any program that prepares individuals to provide relief and improved health and well-being based on Chinese medical principles through one or more of the traditional bodywork therapies of Asia. These programs include courses in acupressure, AMMA Therapy®, Chi Nei Tsang, Five Element Shiatsu, Integrative Eclectic Shiatsu, Japanese Shiatsu, Jin Shin Do® Body-mind Acupressure™, Macrobiotic Shiatsu, Anma Therapy, Thai massage, Tui na, Zen Shiatsu, Qigong, Okazaki® Restorative Massage, principles of Western and Chinese medicine, patient counselling and observation, practice management, applicable regulations, and professional standards and ethics.

Illustrative example(s)

- acupressure
- acupressurist
- asian bodywork therapy
- shiatsu

Exclusion(s)

- acupuncture (See 51.3301-Acupuncture and oriental medicine)
- massage therapy (See 51.3501-Massage therapy/therapeutic massage)

51.3503 Somatic bodywork

This instructional program class comprises any program that prepares individuals to promote physical and emotional balance and well-being through the application of skilled touch principles and techniques. These programs include courses in therapeutic massage and other hands-on touch methods; anatomy and physiology; structural/functional integration and various holistic health systems (Rolfing/Structural Integration, colon hydrotherapy, Breema, Hellerwork, lymphatic drainage, Rosen Method, hydrotherapy, and others); client counselling, practice management, and applicable regulations and professional standards.

Illustrative example(s)

- colonic irrigation
- somatic bodywork

Exclusion(s)

- irrigation (See 01.0207-Irrigation management technology/technician)
- massage therapy (See 51.3501-Massage therapy/therapeutic massage)
- psychosomatic medicine - fellowship (See 61.2404-Consultation-liaison psychiatry fellowship programs)
- somatic psychology (See 42.2816-Somatic psychology)

51.3599 Somatic bodywork and related therapeutic services, other

This instructional program class comprises any program not listed above that relates to Somatic bodywork and related therapeutic services.

Illustrative example(s)

- other somatic bodywork and related therapeutic services

51.36 Movement and mind-body therapies

This subseries comprises instructional program classes 51.3601 to 51.3699.

51.3601 Movement therapy

This instructional program class comprises any program that prepares individuals to use functional and expressive integration strategies to help promote somatic awareness and optimal psychophysical functioning. These programs include courses in skilled touch techniques, kinesthetic awareness processes, movement observation, patterning, client assessment and guidance, verbal and non-verbal communication, practice management, professional standards and ethics, and specific therapeutic and educational modalities (Alexander Technique, Aston Patterning, Body-Mind Centering, Feldenkrais Method®, Laban Movement Analysis, Trager Approach, and others).

Illustrative example(s)

- movement therapy

Exclusion(s)

- dance therapy (See 51.2302-Dance therapy/therapist)
- kinesiology (See 31.0505-Exercise science and kinesiology)
- physical therapy (See 51.2308-Physical therapy/therapist)

51.3602 Yoga teacher training/yoga therapy

This instructional program class comprises any program that prepares individuals to function as professional instructors in the spiritual and physical therapy of Yoga in private, institutional, and clinical settings. These programs include courses in the principles of Ayurveda, philosophy of Yoga, warm-up and progressive exercises, breathing exercises, meditation, Yamas and Niyamas, instructional techniques, posture adjustment, student/client counselling and assessment, advanced Yoga disciplines and styles, business practices, and professional standards and ethics.

Illustrative example(s)

- yoga instructor
- yoga teacher
- yoga teacher training
- yoga therapy

Exclusion(s)

- Ayurvedic medicine (See 51.3305-Ayurvedic medicine/Ayurveda)
- polarity therapist (See 51.3703-Polarity therapy)

51.3603 Hypnotherapy/hypnotherapist

This instructional program class comprises any program that prepares individuals to employ the controlled inducement of altered states of consciousness, or trance, to reduce pain, resolve emotional conflicts, and enhance communications as part of diagnostic and treatment programs. These programs include courses in the principles of hypnosis and suggestion, induction and deepening, post-hypnotic suggestion, awakening techniques, regression, pacing and leading, resistance transformation, client testing and management, practice management and regulation, and professional standards and ethics.

Illustrative example(s)

- clinical hypnosis
- clinical hypnotherapy
- hypnotherapist
- hypnotherapy

51.3699 Movement and mind-body therapies, other

This instructional program class comprises any program not listed above that relates to Movement and mind-body therapies.

Illustrative example(s)

- mindful meditation
- mindfulness and meditation
- neuro-linguistic programming (NLP)
- other movement and mind-body therapies

51.37 Energy-based and biologically-based therapies

This subseries comprises instructional program classes 51.3701 to 51.3799.

51.3701 Aromatherapy

This instructional program class comprises any program that prepares individuals to provide therapeutic care through the preparation and application of extracted essential oils from plants, including flowers (botanicals), roots, berries, and bark. These programs include courses in aromatherapy history and theory, basic physiology of absorption, aromachemistry, organic chemistry, botanical taxonomy, carrier oils, essential oils, extraction methods, blending techniques, application methods, safety, client consultation and treatment planning, business management, professional standards and ethics, and applicable regulations.

Illustrative example(s)

- aromatherapist
- aromatherapy

Exclusion(s)

- homeopathy (See 51.3304-Homeopathic medicine/homeopathy)

51.3702 Herbalism/herbalist

This instructional program class comprises any program that prepares individuals to utilize the materia medica and clinical practices of Western, Native American, African, Australasian, and other herbal medicine traditions to prevent and cure illness and temporary physical disorders. These programs include courses in basic anatomy, physiology, pathology, and toxicology; nutrition; terminology and materia medica; therapeutic herbalism; herbal pharmacy; botanicals and ethnobotany; wildcrafting and harvesting; labelling and dispensing phytotherapy; counterindications; practice management; consultation skills; and professional standards and ethics.

Illustrative example(s)

- herbal medicine
- herbalism
- herbalist
- herbology
- phytotherapy

Exclusion(s)

- Chinese herbal medicine (See 51.3302-Traditional Chinese medicine and Chinese herbology)
- homeopathy (See 51.3304-Homeopathic medicine/homeopathy)

51.3703 Polarity therapy

This instructional program class comprises any program that prepares individuals to promote health and well-being through application of the integrative therapeutic system based on the Human Energy Field theory developed by Randolph Stone. These programs include courses in polarity theory and principles, energy-based and orthodox anatomy and physiology, polarity processing, polarity bodywork, polarity yoga, energetic nutrition, energetic evaluation and assessment, client communication, practice management, and professional standards and ethics.

Illustrative example(s)

- polarity therapist

- polarity therapy

Exclusion(s)

- somatic bodywork (See 51.3503-Somatic bodywork)
- yoga therapy (See 51.3602-Yoga teacher training/yoga therapy)

51.3704 Reiki

This instructional program class comprises any program that prepares individuals to promote physical, emotional, and spiritual balance and healing through the manipulation of the body's energy field to increase healing energy. These programs include courses in the history and philosophy of Usui Reiki, attunement, empowerment, self-treatment, direct and distance healing techniques, healing symbols, aura clearing, Reiki meditation, practice management, and related Reiki systems such as Lightarian, Urevia, and Magnified Healing.

Illustrative example(s)

- Reiki

51.3799 Energy-based and biologically-based therapies, other

This instructional program class comprises any program not listed above that relates to Energy-based and biologically-based therapies.

Illustrative example(s)

- other energy-based and biologically-based therapies

51.38 Registered nursing, nursing administration, nursing research and clinical nursing

This subseries comprises instructional program classes 51.3801 to 51.3899.

51.3801 Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN)

This instructional program class comprises any program that generally prepares individuals in the knowledge, techniques and procedures for promoting health, providing care for sick, disabled, infirm, or other individuals or groups. These programs include courses in the administration of medication and treatments, assisting a physician during treatments and examinations, referring patients to physicians and other health care specialists, and planning education for health maintenance.

Illustrative example(s)

- registered nurse
- registered nursing

Exclusion(s)

- dental nurse (See 51.0601-Dental assisting/assistant)
- Doctorate of Nursing Practice (DNP) (See 51.3818-Nursing practice)
- emergency room nursing (See 51.3816-Emergency room/trauma nurse/nursing)
- licensed practical nurse (See 51.3901-Licensed practical/vocational nurse training (LPN, LVN, RPN, Cert., Dipl., AAS))
- nurse aide (See 51.3902-Nursing assistant/aide and patient care assistant/aide)
- nursing sciences (MSc, PhD) (See 51.3808-Nursing science (MS, MSc, PhD))
- palliative care nursing (See 51.3819-Palliative care nurse/nursing)
- registered psychiatric nurse (See 51.3823-Registered psychiatric nurse/nursing)
- women's health nurse (See 51.3822-Women's health nurse/nursing)

51.3802 Nursing administration (Cert., MSN, MS, MScN, MSc, PhD)

This instructional program class comprises any program that prepares registered nurses to manage nursing personnel and services in hospitals and other health care delivery agencies. These programs include courses in

principles of health care administration, resource and financial management, health care law and policy, medical personnel management, and managed care operations.

Illustrative example(s)

- nurse management
- nursing administration
- nursing management

Exclusion(s)

- health care administration (See 51.0701-Health/health care administration/management)
- health services administration (See 51.2211-Health services administration)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3803 Adult health nurse/nursing

This instructional program class comprises any program that prepares registered nurses to provide general care for adult patients. These programs include courses in adult primary care, adult pathophysiology, clinical management of medication and treatments, patient assessment and education, patient referral, and planning adult health maintenance programs.

Illustrative example(s)

- adult health nurse
- adult health nursing

Exclusion(s)

- adult health nurse practitioner (See 60.0704-Adult/gerontology acute care nurse practitioner residency/fellowship programs)
- licensed practical nurse (See 51.3901-Licensed practical/vocational nurse training (LPN, LVN, RPN, Cert., Dipl., AAS))
- nurse aide (See 51.3902-Nursing assistant/aide and patient care assistant/aide)

51.3804 Nurse anesthetist

This instructional program class comprises any program that prepares registered nurses to administer anesthetics and provide care for patients before, during and after anesthesia. These programs include courses in the biochemistry and physics of anesthesia; advanced anatomy and physiology; clinical pharmacology of anesthetics and adjunctive drugs; pain management; acute care and operating room practice; clinical technology and procedures; emergency intervention; patient assessment and education; and legal issues.

Illustrative example(s)

- nurse anesthetist

Exclusion(s)

- anesthesia nurse practitioner (See 60.0799-Nurse practitioner residency/fellowship programs, other)
- anesthesiologist assistant (See 51.0809-Anesthesiologist assistant)
- licensed practical nurse (See 51.3901-Licensed practical/vocational nurse training (LPN, LVN, RPN, Cert., Dipl., AAS))

51.3805 Primary health care nurse/nursing and family practice nurse/nursing

This instructional program class comprises any program that prepares registered nurses to provide independent general care for family groups and individuals in the context of family living. These programs include courses in family theory and intervention, role synthesis, family primary care, nursing practice and health care policy, holistic practice, pediatric practice, gerontological practice, health assessment, clinical pharmacotherapeutics, clinical techniques, and pathopsychology.

Illustrative example(s)

- family practice nurse
- family practice nursing
- primary care nurse
- primary care nursing
- primary health care nurse
- primary health care nursing

Exclusion(s)

- Doctorate of Nursing Practice (DNP) (See 51.3818-Nursing practice)
- family nurse practitioner (See 60.0713-Family medicine nurse practitioner residency/fellowship programs)
- licensed practical nurse (See 51.3901-Licensed practical/vocational nurse training (LPN, LVN, RPN, Cert., Dipl., AAS))
- nurse aide (See 51.3902-Nursing assistant/aide and patient care assistant/aide)
- nurse practitioner (See 60.0701-Nurse practitioner residency/fellowship programs, general)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3806 Maternal/child health and neonatal nurse/nursing

This instructional program class comprises any program that prepares registered nurses to provide prenatal care to pregnant women and to mothers and their newborn infants. These programs include courses in perinatal and newborn health assessment, stabilization, and care; pathophysiology of pregnancy, fetuses, and the newborn; clinical management of high-risk pregnancies and newborns; perinatal and neonatal technology and clinical procedures; and patient education.

Illustrative example(s)

- maternal nurse
- maternal nursing
- maternity nurse
- maternity nursing
- neonatal nurse
- neonatal nursing

Exclusion(s)

- birthing and parenting knowledge and skills (not for credit) (See 34.0102-Birthing and parenting knowledge and skills (not for credit))
- midwifery (See 51.3401-Direct entry midwifery (LM, CPM))
- neonatal nurse practitioner (See 60.0725-Neonatal nurse practitioner residency/fellowship programs)
- nursing midwifery (See 51.3807-Nurse midwife/nursing midwifery)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3807 Nurse midwife/nursing midwifery

This instructional program class comprises any program that prepares registered nurses to independently deliver babies and treat mothers in the prenatal, delivery, and post-delivery periods. These programs include courses in pre-delivery screening, physician referral, and the care of infants during the delivery and immediate post-delivery phases.

Illustrative example(s)

- nurse midwife
- nursing midwifery

Exclusion(s)

- birthing and parenting knowledge and skills (not for credit) (See 34.0102-Birthing and parenting knowledge and skills (not for credit))

- maternity nursing (See 51.3806-Maternal/child health and neonatal nurse/nursing)
- midwifery (See 51.3401-Direct entry midwifery (LM, CPM))
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3808 Nursing science (MS, MSc, PhD)

This instructional program class comprises any research program that focuses on the study of advanced clinical practices, research methodologies, the administration of complex nursing services, and that prepares nurses to further the progress of nursing research through experimentation and clinical applications.

Illustrative example(s)

- nursing science
- nursing sciences (MSc, PhD)

Exclusion(s)

- Doctorate of Nursing Practice (DNP) (See 51.3818-Nursing practice)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3809 Pediatric nurse/nursing

This instructional program class comprises any program that prepares registered nurses to provide care for children from infancy through adolescence. These programs include courses in the administration of medication and treatments, assisting physicians, patient examination and referral, and planning and delivering health maintenance and health education programs.

Illustrative example(s)

- children's nurse
- pediatric nurse
- pediatric nursing

Exclusion(s)

- licensed practical nurse (See 51.3901-Licensed practical/vocational nurse training (LPN, LVN, RPN, Cert., Dipl., AAS))
- maternity nursing (See 51.3806-Maternal/child health and neonatal nurse/nursing)
- mental health care (See 51.1502-Psychiatric/mental health services technician)
- nurse aide (See 51.3902-Nursing assistant/aide and patient care assistant/aide)
- pediatric nurse practitioner (See 60.0736-Pediatric nurse practitioner residency/fellowship programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3810 Psychiatric/mental health nurse/nursing

This instructional program class comprises any program that prepares registered nurses to promote mental health and provide nursing care to patients with mental, emotional or behavioural disorders, in mental institutions or other settings. These programs include courses in psychopathology, behavioural health, counselling and intervention strategies, psychoeducation, mental health assessment and dual diagnosis, stabilization and management of psychotic illness, psychiatric care and rehabilitation, substance abuse, and crisis intervention.

Illustrative example(s)

- mental health nurse
- mental health nursing
- psychiatric nurse
- psychiatric nursing

Exclusion(s)

- psychiatric nurse practitioner (See 60.0738-Psychiatric/mental health nurse practitioner residency/fellowship programs)

- psychiatry - residency (See 61.2401-Psychiatry residency programs)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))
- registered psychiatric nurse (See 51.3823-Registered psychiatric nurse/nursing)

51.3811 Public health/community nurse/nursing

This instructional program class comprises any program that prepares registered nurses to promote health and provide preventive and curative nursing services for groups or communities under the supervision of a public health agency. These programs include courses in community and rural health, family therapy and intervention, disease prevention, health education, and community health assessment.

Illustrative example(s)

- community health nursing
- community nurse
- community nursing
- public health nurse
- public health nursing

Exclusion(s)

- public health (MPH, DPH) (See 51.2201-Public health, general (BPH, MPH, DPH))
- public health education and promotion (See 51.2207-Public health education and promotion)
- public health medicine - residency (See 61.2301-Public health and general preventive medicine residency programs)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3812 Perioperative/operating room and surgical nurse/nursing

This instructional program class comprises any program that prepares registered nurses to provide care to patients before and during surgery, and provide tableside assistance to surgeons. These programs include courses in operating room safety and preparation, aseptic technique, anesthesia, patient preparation, surgical instruments and procedures, sterilization and disinfecting, surgical drugs and solutions, hemostasis, emergency procedures, and patient/family education.

Illustrative example(s)

- operating room nurse
- operating room nursing
- OR nurse
- perioperative nurse
- perioperative nursing
- registered nurse first assistant
- registered nurse first assistant (RNFA)
- RN first assistant
- surgical nurse
- surgical nursing

Exclusion(s)

- dental nurse (See 51.0601-Dental assisting/assistant)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3813 Clinical nurse specialist

This instructional program class comprises any program that prepares registered nurses to deliver direct patient and client care in clinical settings. These programs include courses in clinical pharmacotherapeutics, advanced clinical practice, holistic nursing, nursing practice and health care policy, administration and consultation services, health assessment, patient stabilization and care, and patient education.

Illustrative example(s)

- clinical nurse specialist
- clinical nursing

Exclusion(s)

- clinical nurse leader (See 51.3820-Clinical nurse leader)
- licensed practical nurse (See 51.3901-Licensed practical/vocational nurse training (LPN, LVN, RPN, Cert., Dipl., AAS))
- nurse aide (See 51.3902-Nursing assistant/aide and patient care assistant/aide)
- nursing sciences (MSc, PhD) (See 51.3808-Nursing science (MS, MSc, PhD))
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3814 Critical care nurse/nursing

This instructional program class comprises any program that prepares registered nurses to provide specialized care to patients with life-threatening problems, including those in intensive care facilities and on life support. These programs include courses in adult, neonatal, and pediatric critical care; technical skills; patient monitoring and assessment; normal and abnormal readings; and troubleshooting.

Illustrative example(s)

- acute care nurse
- acute care nursing
- critical care nurse
- critical care nursing
- intensive care nurse
- intensive care nursing

Exclusion(s)

- acute care nurse practitioner (See 60.0703-Acute care nurse practitioner residency/fellowship programs)
- palliative care nursing (See 51.3819-Palliative care nurse/nursing)
- pediatric critical care medicine - fellowship (See 61.1907-Pediatric critical care medicine fellowship programs)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))
- trauma nursing (See 51.3816-Emergency room/trauma nurse/nursing)

51.3815 Occupational and environmental health nurse/nursing

This instructional program class comprises any program that prepares registered nurses to deliver nursing health care services to workers and worker populations in clinical settings and at job sites. These programs include courses in public and community health; occupational safety and health; occupational health surveillance; case management; fitness for duty testing; medication; allergies and immunization; emergency and ambulatory care; and applicable laws and regulations.

Illustrative example(s)

- environmental health nurse
- environmental health nursing
- occupational and environmental health nurse
- occupational and environmental health nursing
- occupational health and safety nursing
- occupational health nurse
- occupational health nursing

Exclusion(s)

- occupational health nurse practitioner (See 60.0730-Occupational health nurse practitioner residency/fellowship programs)

- public health nurse (See 51.3811-Public health/community nurse/nursing)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3816 Emergency room/trauma nurse/nursing

This instructional program class comprises any program that prepares registered nurses to deliver advanced, direct patient care in emergency and trauma settings. These programs include courses in advanced health assessment, pharmacology, physiology, emergency management, trauma conditions, trauma assessments and acute care.

Illustrative example(s)

- emergency nurse
- emergency nursing
- emergency room nurse
- trauma nurse

Exclusion(s)

- critical care nursing (See 51.3814-Critical care nurse/nursing)
- emergency nurse practitioner (See 60.0711-Emergency medicine nurse practitioner residency/fellowship programs)
- pediatric emergency medicine - fellowship (See 61.1908-Pediatric emergency medicine fellowship programs)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))
- trauma counselling (See 51.1513-Trauma counselling)

51.3818 Nursing practice

This instructional program class comprises any practice-focused program that prepares registered nurses for increasingly complex evidence-based nursing practice, including translating research into practice, evaluating evidence, applying research in decision-making, and implementing viable clinical innovations to change practice. These programs include courses in healthcare delivery systems, health economics and finance, health policy, research methods, translating evidence into practice, concepts in population health, and nursing leadership.

Illustrative example(s)

- Doctorate of Advanced Nursing Practice
- Doctorate of Nursing Practice (DNP)

Exclusion(s)

- nurse practitioner (See 60.0701-Nurse practitioner residency/fellowship programs, general)
- nursing sciences (MSc, PhD) (See 51.3808-Nursing science (MS, MSc, PhD))
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3819 Palliative care nurse/nursing

This instructional program class comprises any program that prepares registered nurses to provide a combination of active and compassionate therapies intended to comfort and support patients and their families who are living with life-threatening illness. These programs include courses in pathophysiology, palliative care processes, pain management, pharmacology, loss, grief, death, and bereavement.

Illustrative example(s)

- palliative care nurse
- palliative care nursing

Exclusion(s)

- critical care nursing (See 51.3814-Critical care nurse/nursing)
- hospice and palliative medicine - fellowship (See 61.0205-Hospice and palliative medicine fellowship programs)

- palliative care nurse practitioner (See 60.0734-Palliative care nurse practitioner residency/fellowship programs)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3820 Clinical nurse leader

This instructional program class comprises any program that prepares registered nurses for careers as clinical nurse leaders in which they work as part of an interdisciplinary team that provides direct medical care for patients based on evidence-based practice and research. These programs include courses in pharmacology, pathophysiology, epidemiology, research in nursing methods, advanced health assessment, statistics, and clinical practice management.

Illustrative example(s)

- clinical nurse leader

Exclusion(s)

- clinical nursing (See 51.3813-Clinical nurse specialist)

51.3821 Geriatric nurse/nursing

This instructional program class comprises any program that prepares registered nurses to provide health care to aging and elderly patients. These programs include courses in geriatric primary care, geriatric diagnosis, mental health and aging, primary care management, geriatric acute and chronic illness, advanced nursing practices for geriatric patients, evidence-based nursing practice, advanced physiology, pathophysiology, pharmacology, and pharmacotherapeutics.

Illustrative example(s)

- geriatric nurse
- geriatric nursing
- gerontological nurse
- gerontological nursing

Exclusion(s)

- geriatric medicine - fellowship (See 61.0203-Geriatric medicine fellowship programs)
- gerontological nurse practitioner (See 60.0717-Gerontology nurse practitioner residency/fellowship programs)

51.3822 Women's health nurse/nursing

This instructional program class comprises any program that prepares registered nurses to provide health care specific to women. These programs include courses in the wellness and care of women, gynecology, obstetrics, advanced nursing practices for women, evidence-based nursing practice, advanced physiology and pathophysiology, advanced pharmacology, and pharmacotherapeutics.

Illustrative example(s)

- women's health nurse
- women's health nursing

Exclusion(s)

- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))
- women's health nurse practitioner (See 60.0750-Women's health nurse practitioner residency/fellowship programs)

51.3823 Registered psychiatric nurse/nursing^{CAN}

This instructional program class comprises any program that prepares individuals to become registered psychiatric nurses; to promote mental health and provide nursing care to patients with mental, emotional or

behavioural disorders, in clinical and treatment environments or other settings. These programs include courses in psychopathology, pharmacology, behavioural health, counselling and intervention strategies, psychoeducation, mental health assessment and dual diagnosis, stabilization and management of psychotic illness, psychiatric care and rehabilitation, substance abuse, and crisis intervention.

Illustrative example(s)

- registered psychiatric nurse
- registered psychiatric nursing

Exclusion(s)

- mental health care (See 51.1502-Psychiatric/mental health services technician)
- psychiatric nurse (See 51.3810-Psychiatric/mental health nurse/nursing)
- psychiatric nurse practitioner (See 60.0738-Psychiatric/mental health nurse practitioner residency/fellowship programs)
- psychiatry - residency (See 61.2401-Psychiatry residency programs)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3824 Forensic nursing

This instructional program class comprises any program that prepares individuals to apply the law and forensic science to nursing practice and collaborate with other professionals for the care of victims and the prosecution of criminals. These programs include courses in advanced physical assessment, evidence collection and preservation, forensic anthropology, legal testimony, medicolegal investigation, pathophysiology, pathohistology, pharmacology, and violence prevention.

Illustrative example(s)

- advanced forensic nursing
- advanced practice forensic nursing
- child abuse nurse examiner
- forensic nurse
- forensic nurse death investigator
- forensic nursing
- forensic nursing science
- intimate partner violence nurse examiner
- sexual assault nurse examiner

Exclusion(s)

- forensic psychology (See 42.2812-Forensic psychology)
- forensic science and technology (See 43.0406-Forensic science and technology)
- forensic social work (See 44.0703-Forensic social work)

51.3899 Registered nursing, nursing administration, nursing research and clinical nursing, other

This instructional program class comprises any program not listed above that relates to Registered nursing, nursing administration, nursing research, and clinical nursing.

Illustrative example(s)

- coronary care nursing
- nephrology nursing
- neuroscience nursing
- oncology nursing
- other registered nursing, nursing administration, nursing research and clinical nursing
- pain management (college)
- respiratory health nurse
- respiratory nurse

Exclusion(s)

- cardiology nurse practitioner (See 60.0706-Cardiology/cardiovascular nurse practitioner residency/fellowship programs)
- dental nursing (See 51.0601-Dental assisting/assistant)
- nephrology nurse practitioner (See 60.0726-Nephrology nurse practitioner residency/fellowship programs)
- oncology nurse practitioner (See 60.0799-Nurse practitioner residency/fellowship programs, other)
- pain management (university) (See 51.1403-Pain management (Cert., MS, MSc, PhD))
- pain management nurse practitioner - residency (See 60.0733-Pain management nurse practitioner residency/fellowship programs)
- pain medicine - fellowship (See 61.0210-Pain medicine fellowship programs)
- respiratory health nurse practitioner - residency (See 60.0740-Pulmonary nurse practitioner residency/fellowship programs)

51.39 Practical nursing, vocational nursing and nursing assistants

This subseries comprises instructional program classes 51.3901 to 51.3999.

51.3901 Licensed practical/vocational nurse training (LPN, LVN, RPN, Cert., Dipl., AAS)

This instructional program class comprises any program that prepares individuals to assist in providing general nursing care under the direction of a registered nurse, physician or dentist. These programs include courses in taking patient vital signs, applying sterile dressings, patient health education and assistance with examinations and treatment.

Illustrative example(s)

- certified nursing assistant
- licensed nursing assistant
- licensed practical nurse
- licensed vocational nurse
- LPN
- LVN
- registered nursing assistant
- registered practical nurse
- RPN

Exclusion(s)

- certified nursing aide (See 51.3902-Nursing assistant/aide and patient care assistant/aide)
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3902 Nursing assistant/aide and patient care assistant/aide

This instructional program class comprises any program that prepares individuals to perform routine nursing-related services to patients in hospitals or long-term care facilities, under the training and supervision of a registered nurse or licensed practical nurse.

Illustrative example(s)

- certified nurse aide
- certified nursing aide
- nurse aide
- nursing aide
- nursing assistant
- nursing assistant (non-registered)
- patient care aide
- patient care assistant

Exclusion(s)

- health aide (See 51.2601-Health aide)
- licensed practical nurse (See 51.3901-Licensed practical/vocational nurse training (LPN, LVN, RPN, Cert., Dipl., AAS))
- registered nurse (See 51.3801-Registered nursing/registered nurse (RN, ASN, BSN, BScN, MSN, MScN))

51.3999 Practical nursing, vocational nursing and nursing assistants, other

This instructional program class comprises any program not listed above that relates to Practical nursing, vocational nursing, and nursing assistants.

Illustrative example(s)

- other practical nursing, vocational nursing and nursing assistants

51.99 Health professions and related programs, other

This subseries comprises instructional program classes 51.9980 to 51.9999.

51.9980 Cannabis-related health professions and clinical sciences, other^{CAN}

This instructional program class comprises any program not listed above that prepares individuals for Cannabis-related health professions and clinical sciences.

Illustrative example(s)

- cannabis education for health professionals
- cannabis education for healthcare professionals
- cannabis information for health professionals
- cannabis information for healthcare professionals
- medical cannabis training for health professionals
- other cannabis-related clinical sciences
- other cannabis-related health professions

Exclusion(s)

- cannabis abuse counselling (See 51.1580-Cannabis abuse/cannabis addiction counselling^{CAN})
- cannabis-related public health (See 51.2280-Cannabis-related public health^{CAN})
- cannabis-related public health education (See 51.2280-Cannabis-related public health^{CAN})

51.9999 Health professions and related programs, other

This instructional program class comprises any program not listed above that relates to Health professions and related programs.

Illustrative example(s)

- diabetes education
- medical triage
- other health professions and related programs

Exclusion(s)

- translational research in health sciences (See 51.1402-Clinical and translational science (Cert., MS, MSc, PhD))

52. Business, management, marketing and related support services

This series comprises instructional programs that prepare individuals to perform managerial, technical support, and applied research functions related to the operation of commercial and non-profit enterprises and the buying and selling of goods and services.

52.01 Business/commerce, general

This subseries comprises instructional program class 52.0101.

52.0101 Business/commerce, general

This instructional program class comprises any program that focuses on the general study of business, including the processes of interchanging goods and services (buying, selling and producing), business organization, and accounting as used in profit-making and non-profit public and private institutions and agencies. The program prepares individuals to apply business principles and techniques in various occupational settings.

Illustrative example(s)

- business
- business studies
- commerce
- general business
- general business studies

Exclusion(s)

- business administration (See 52.0201-Business administration and management, general)
- business education (See 13.1303-Business and innovation/entrepreneurship teacher education)
- e-business (See 52.0208-E-commerce/electronic commerce)
- entrepreneurial studies (See 52.0701-Entrepreneurship/entrepreneurial studies)
- international business (See 52.1101-International business/trade/commerce)

52.02 Business administration, management and operations

This subseries comprises instructional program classes 52.0201 to 52.0299.

52.0201 Business administration and management, general

This instructional program class comprises any program that generally prepares individuals to plan, organize, direct, and control the functions and processes of a firm or organization. These programs include courses in management theory, human resources management and behaviour, accounting and other quantitative methods, purchasing and logistics, organization and production, marketing, and business decision-making.

Illustrative example(s)

- administration
- administrative management
- administrative studies
- business administration
- business management
- general management
- green business management
- management
- management studies
- strategic management

Exclusion(s)

- agricultural business management (See 01.0101-Agricultural business and management, general)
- arts administration (See 50.1001-Arts, entertainment, and media management, general)
- business education (See 13.1303-Business and innovation/entrepreneurship teacher education)
- health care administration (See 51.0701-Health/health care administration/management)
- hospital administration (See 51.0702-Hospital and health care facilities administration/management)
- human resources management (See 52.1001-Human resources management/personnel administration, general)
- organizational leadership (See 52.0213-Organizational leadership)

- pharmaceutical marketing and management (See 51.2011-Pharmaceutical marketing and management)
- project management (See 52.0211-Project management)
- research and development management (See 52.0210-Research and development management)
- retail management (See 52.0212-Retail management)
- telecommunications management (See 52.2101-Telecommunications management)
- theatre arts management (See 50.1004-Theatre/theatre arts management)

52.0202 Purchasing, procurement/acquisitions and contracts management

This instructional program class comprises any program that prepares individuals to manage and/or administer the processes by which a firm or organization contracts for goods and services to support its operations, as well as contracts it to sell to other firms or organizations. These programs include courses in contract law, negotiations, buying procedures, government contracting, cost and price analysis, vendor relations, contract administration, auditing and inspection, relations with other firm departments, and applications to special areas such as high-technology systems, international purchasing, and construction.

Illustrative example(s)

- acquisition/procurement management
- acquisitions management
- contracts management
- procurement
- procurement management
- purchasing
- purchasing administration
- purchasing management
- supply management

Exclusion(s)

- logistics and material management (See 52.0203-Logistics, materials, and supply chain management)
- retail buyer (See 52.1802-Merchandising and buying operations)

52.0203 Logistics, materials, and supply chain management

This instructional program class comprises any program that prepares individuals to manage and coordinate all logistical functions in an enterprise, ranging from acquisitions to receiving and handling, through internal allocation of resources to operations units, to the handling and delivery of output. These programs include courses in acquisitions and purchasing, inventory control, storage and handling, just-in-time manufacturing, logistics planning, shipping and delivery management, transportation, quality control, resource estimation and allocation, and budgeting.

Illustrative example(s)

- acquisition logistics
- logistics administration
- logistics and materiel management
- logistics and supply management
- logistics management
- logistics planning
- materiel management
- supply chain management

Exclusion(s)

- meeting and event planning (See 52.0907-Meeting and event planning)
- parts and warehousing management (See 52.0409-Parts, warehousing and inventory management operations)
- procurement management (See 52.0202-Purchasing, procurement/acquisitions and contracts management)

- transportation logistics (See 52.0209-Transportation/mobility management)

52.0204 Office management and supervision

This instructional program class comprises any program that prepares individuals to supervise and manage the operations and personnel of business offices and management-level divisions. These programs include courses in employee supervision, management, and labour relations; budgeting; scheduling and coordination; office systems operation and maintenance; office records management, organization, and security; office facilities design and space management; preparation and evaluation of business management data; and public relations.

Illustrative example(s)

- office management
- office management and supervision
- office supervision

Exclusion(s)

- executive assistant (See 52.0402-Executive assistant/executive secretary)
- human resources management (See 52.1001-Human resources management/personnel administration, general)
- medical office administration (See 51.0705-Medical office management/administration)
- office clerk (See 52.0408-General office occupations and clerical services)
- operations management (See 52.0205-Operations management and supervision)
- secretarial science (See 52.0401-Administrative assistant and secretarial science, general)

52.0205 Operations management and supervision

This instructional program class comprises any program that prepares individuals to manage and direct the physical and/or technical functions of a firm or organization, particularly those relating to development, production, and manufacturing. These programs include courses in principles of general management, manufacturing and production systems, plant management, equipment maintenance management, production control, industrial labour relations and skilled trades supervision, strategic manufacturing policy, systems analysis, productivity analysis and cost control, and materials planning.

Illustrative example(s)

- industrial supervision
- maintenance management
- operations management
- operations supervision
- production management
- production supervision

Exclusion(s)

- agricultural production (See 01.0301-Agricultural production operations, general)
- industrial management (See 15.1501-Engineering/industrial management)
- logistics and material management (See 52.0203-Logistics, materials, and supply chain management)
- operations research (See 14.3701-Operations research)

52.0206 Non-profit/public/organizational management

This instructional program class comprises any program that prepares individuals to manage the business affairs of non-profit corporations, including foundations, educational institutions, associations, and other such organizations, and public agencies and governmental operations. These programs include courses in business management, principles of public administration, principles of accounting and financial management, human resources management, taxation of non-profit organizations, and business law as applied to non-profit organizations.

Illustrative example(s)

- administration of cooperatives
- association management
- management of cooperatives
- non-profit management
- non-profit organization management
- non-profit sector management
- public agency management
- public enterprise management
- voluntary sector management

Exclusion(s)

- education administration (See 13.0401-Educational leadership and administration, general)
- grantsmanship (See 52.0502-Grantsmanship)
- health care administration (See 51.0701-Health/health care administration/management)
- hospital administration (See 51.0702-Hospital and health care facilities administration/management)
- public administration (See 44.0401-Public administration, general)

Inclusion(s)

- fundraising
- fundraising management

52.0207 Customer service management

This instructional program class comprises any program that prepares individuals to supervise and monitor customer service performance and manage frontline customer support services, call centres/help desks, and customer relations. These programs include courses in customer behaviour; specialized information technology and systems management; developing and using customer service databases; user surveys and other feedback mechanisms; strategic and performance planning and analysis; operations management; personnel supervision; and communications and marketing skills.

Illustrative example(s)

- call centre administration
- call centre management
- customer service management

Exclusion(s)

- customer service (See 52.0411-Customer service support/call centre/teleservice operation)
- public relations (See 09.0902-Public relations/image management)

52.0208 E-commerce/electronic commerce

This instructional program class comprises any program that prepares individuals to plan, manage, supervise, and market electronic business operations, products, and services provided online via the Internet. These programs include courses in business administration, information technology, information resources management, web design, computer and Internet law and policy, computer privacy and security, e-trading, insurance, electronic marketing, investment capital planning, enterprise operations, personnel supervision, contracting, and product and service networking.

Illustrative example(s)

- e-business
- e-business management
- e-commerce
- e-commerce management
- electronic commerce

- electronic commerce management

Exclusion(s)

- business (See 52.0101-Business/commerce, general)
- electronic marketing (See 52.1404-Digital marketing)
- multimedia and web (See 11.0801-Web page, digital/multimedia and information resources design)
- telecommunications management (See 52.2101-Telecommunications management)

52.0209 Transportation/mobility management

This instructional program class comprises any program that focuses on the theory, policy, law, and practices required to administrate and operate transportation (including public transportation) facilities, networks, services and systems. These programs include courses in demand analysis and forecasting, environmental planning, facilities design and construction, geographic information systems (GIS), logistics, multi- and intermodal transportation systems, project management, transportation administration, transportation policy, transportation economics, transportation law, transportation operations, transportation systems, and transportation technologies.

Illustrative example(s)

- air mobility
- customs broker
- freight forwarding
- mobility management
- public transportation management
- sea mobility
- transportation administration
- transportation logistics
- transportation management
- transportation mobility management

Exclusion(s)

- logistics and material management (See 52.0203-Logistics, materials, and supply chain management)
- maritime studies (See 30.2901-Maritime studies)
- public transportation planning (See 44.0403-Public transportation and infrastructure planning/studies)
- transportation and infrastructure planning (See 44.0403-Public transportation and infrastructure planning/studies)
- transportation clerk (See 52.0410-Traffic, customs and transportation clerk/technician)
- transportation engineering (See 14.0804-Transportation and highway engineering)
- transportation law (graduate level) (See 22.0223-Transportation law (LLM, LLD, JSD/SJD))

52.0210 Research and development management

This instructional program class comprises any program that prepares individuals to manage projects, programs and organizations involving basic and applied research, or specialized technology applications, in the public or private sectors. These programs include courses in all aspects of business management applied to the leadership and control of scientific, clinical, engineering and social scientific enterprises; the management of related operational, security and logistical issues; and technical competence in one or more research disciplines.

Illustrative example(s)

- research and development management

Exclusion(s)

- clinical trials management (See 51.0719-Clinical research coordinator)
- management (See 52.0201-Business administration and management, general)
- marketing research (See 52.1402-Marketing research)
- operations research (See 14.3701-Operations research)

- research administration (See 52.0214-Research administration)
- science and technology management (See 52.0216-Science/technology management)

52.0211 Project management

This instructional program class comprises any program that prepares individuals to apply quantitative and qualitative knowledge, skills, tools, and techniques to manage projects in a wide range of fields and occupations. These programs include courses in project planning, risk management, cost and time management, contracts and procurement, accounting, statistics, decision making, and human resources.

Illustrative example(s)

- project management

Exclusion(s)

- construction project management (See 52.2002-Construction project management)
- IT project management (See 11.1005-Information technology project management)
- management (See 52.0201-Business administration and management, general)

52.0212 Retail management

This instructional program class comprises any program that prepares individuals to manage the operations of a wide variety of retail businesses, including department stores; independent and chain stores; fashion, food and beverage, and pharmaceutical establishments; and online retail businesses. These programs include courses in retail management, merchandise management, customer service management, marketing, organizational behaviour, accounting, finance, business law, and personnel management.

Illustrative example(s)

- retail management

Exclusion(s)

- management (See 52.0201-Business administration and management, general)
- pharmaceutical marketing and management (See 51.2011-Pharmaceutical marketing and management)
- retail sales (See 52.1803-Retailing and retail operations)

52.0213 Organizational leadership

This instructional program class comprises any program that focuses on leadership skills that can be applied to a business, government, non-profit, or educational setting. These programs include courses in organizational planning, dynamics of leadership, finance, team building, conflict resolution and mediation, communication and other management skills.

Illustrative example(s)

- leadership studies
- organizational leadership

Exclusion(s)

- educational leadership (See 13.0401-Educational leadership and administration, general)
- executive coaching (See 52.1006-Executive/career coaching)
- lay leadership (See 39.0705-Lay ministry)
- management (See 52.0201-Business administration and management, general)
- military psychology and leadership (See 28.0801-Military science, leadership and operational art)
- organizational behaviour studies (See 52.1003-Organizational behaviour studies)
- outdoor recreation leadership (See 31.0601-Outdoor education)
- pastoral leadership (See 39.0701-Pastoral studies/counselling)
- recreation leadership (See 31.0101-Parks, recreation, and leisure studies)

52.0214 Research administration

This instructional program class comprises any program that prepares formally trained, advanced-level personnel for research administration leadership positions at colleges and universities, government agencies, hospitals, non-profit agencies, and in industry. These programs include courses in bioethics, biostatistics, ethical, legal and regulatory consideration in clinical investigation, financial analysis, grant writing, managing and monitoring clinical trials, project management, strategic planning, and team building.

Illustrative example(s)

- research administration

Exclusion(s)

- clinical research administrator (See 51.0719-Clinical research coordinator)
- research and development management (See 52.0210-Research and development management)

52.0215 Risk management

This instructional program class comprises any program that focuses on the principles of business risk measurement, mitigation, and management. These programs include courses in business analytics, foundations of insurance and risk management, investments, life and health insurance, loss prevention, property and liability insurance risk assessment, risk control, risk financing, and security.

Exclusion(s)

- enterprise risk management and compliance law (graduate level) (See 22.0216-Compliance law (JM/MJ, LLM, ML, MSL/MLS, LLD, JSD/SJD, PhD))
- financial risk management (See 52.0810-Financial risk management)

52.0216 Science/technology management

This instructional program class comprises any program that prepares individuals to develop science, technical, and business skills required for management of people and systems in technology-based industries, government agencies, and non-profit organizations. These programs include courses in computer applications, general management principles, production and operations management, project management, quality control, safety and health issues, and statistics.

Illustrative example(s)

- science and technology management
- science management
- technology management

Exclusion(s)

- engineering management (See 15.1501-Engineering/industrial management)
- management science (See 52.1301-Management science)
- research and development management (See 52.0210-Research and development management)

52.0299 Business administration, management and operations, other

This instructional program class comprises any program not listed above that relates to Business administration, management and operations.

Illustrative example(s)

- institutional administration
- institutional management
- lean management
- lean manufacturing
- other business administration, management and operations
- risk management

Exclusion(s)

- business (See 52.0101-Business/commerce, general)
- business administration (See 52.0201-Business administration and management, general)
- construction management (See 52.2001-Construction management, general)
- non-profit management (See 52.0206-Non-profit/public/organizational management)

52.03 Accounting and related services

This subseries comprises instructional program classes 52.0301 to 52.0399.

52.0301 Accounting

This instructional program class comprises any program that prepares individuals to practice the profession of accounting and to perform related business functions. These programs include courses in accounting principles and theory, financial accounting, managerial accounting, cost accounting, budget control, tax accounting, legal aspects of accounting, auditing, reporting procedures, statement analysis, planning and consulting, business information systems, accounting research methods, professional standards and ethics, and applications to specific for-profit, public, and non-profit organizations.

Illustrative example(s)

- accountancy
- accounting
- certified general accountant (CGA)
- chartered accountant (CA)
- public accounting

Exclusion(s)

- accounting and computer science (See 30.1601-Accounting and computer science)
- accounting clerk (See 52.0302-Accounting technology/technician and bookkeeping)
- accounting teaching (See 13.1303-Business and innovation/entrepreneurship teacher education)
- auditing (See 52.0303-Auditing)
- certified management accountant (CMA) (See 52.0305-Accounting and business/management)

52.0302 Accounting technology/technician and bookkeeping

This instructional program class comprises any program that prepares individuals to provide technical administrative support to professional accountants and other financial management personnel. These programs include courses in posting transactions to accounts, record keeping systems, accounting software operation, and general accounting principles and practices.

Illustrative example(s)

- accounting assistant
- accounting clerk
- accounting technician
- automated accounting
- bookkeeper
- bookkeeping
- computerized accounting
- computerized bookkeeping
- financial accounting

Exclusion(s)

- accounting (See 52.0301-Accounting)
- accounting and computer science (See 30.1601-Accounting and computer science)
- accounting and finance (See 52.0304-Accounting and finance)
- accounting teaching (See 13.1303-Business and innovation/entrepreneurship teacher education)

- computer accounting (See 30.1601-Accounting and computer science)

52.0303 Auditing

This instructional program class comprises any program that prepares individuals, including certified accountants, to perform independent internal and external appraisals to evaluate organizational financial and operational activities, ensure compliance with laws and policies, safeguard assets, and promote effective planning and resource allocation. These programs include courses in advanced accounting, audit tools and techniques, sampling, risk and control, audit planning, audit function management, laws and regulations, environmental auditing, information technology applications, professional standards and ethics, and specific industry and service sector problems.

Illustrative example(s)

- auditing
- financial audit
- internal audit
- operational audit
- program audit

Exclusion(s)

- accounting (See 52.0301-Accounting)
- accounting and computer science (See 30.1601-Accounting and computer science)
- investigative and forensic accounting (See 43.0405-Financial forensics and fraud investigation)
- security services (See 43.0109-Security and loss prevention services)
- security services administration (See 43.0112-Securities services administration/management)

52.0304 Accounting and finance

This instructional program class comprises any integrated or combined program in accounting and finance that prepares individuals to function as accountants and financial managers or analysts.

Illustrative example(s)

- accounting and finance
- chartered business valuator
- chartered financial valuator

Exclusion(s)

- accounting (See 52.0301-Accounting)
- finance (See 52.0801-Finance, general)
- financial accounting (See 52.0302-Accounting technology/technician and bookkeeping)
- financial planning (See 52.0804-Financial planning and services)
- public finance (See 52.0808-Public finance)

52.0305 Accounting and business/management

This instructional program class comprises any integrated or combined program in accounting and business administration/management that prepares individuals to function as accountants and business managers.

Illustrative example(s)

- accounting and administration
- accounting and business
- accounting and business administration
- accounting and business management
- accounting and management
- certified management accountant (CMA)
- management accounting

Exclusion(s)

- accounting (See 52.0301-Accounting)
- accounting and finance (See 52.0304-Accounting and finance)
- business administration (See 52.0201-Business administration and management, general)

52.0399 Accounting and related services, other

This instructional program class comprises any program not listed above that relates to Accounting and related services.

Illustrative example(s)

- controllership
- other accounting and related services

Exclusion(s)

- accounting and administration (See 52.0305-Accounting and business/management)
- accounting and finance (See 52.0304-Accounting and finance)
- business economics (See 52.0601-Business/managerial economics)
- payroll administration (See 52.1099-Human resources management and services, other)

52.04 Business operations support and assistant services

This subseries comprises instructional program classes 52.0401 to 52.0499.

52.0401 Administrative assistant and secretarial science, general

This instructional program class comprises any program that generally prepares individuals to perform the duties of administrative assistants and/or secretaries and stenographers. These programs include courses in business communications, principles of business law, word processing and data entry, office machines operation and maintenance, office procedures, public relations, secretarial accounting, filing systems and records management, and report preparation.

Illustrative example(s)

- administrative assistant
- bilingual secretary
- general secretarial
- office administration
- secretarial arts
- secretarial science
- secretarial studies
- secretary
- secretary-receptionist

Exclusion(s)

- administrative clerk (See 52.0408-General office occupations and clerical services)
- executive secretary (See 52.0402-Executive assistant/executive secretary)
- legal secretary (See 22.0301-Legal administrative assistant/secretary)
- medical secretary (See 51.0716-Medical administrative/executive assistant and medical secretary)
- office management (See 52.0204-Office management and supervision)
- receptionist (See 52.0406-Receptionist)
- word processing (See 11.0602-Word processing)

52.0402 Executive assistant/executive secretary

This instructional program class comprises any program that prepares individuals to perform the duties of special assistants and/or personal secretaries for business executives and top management. These programs include courses in business communications, principles of business law, public relations, scheduling and travel

management, secretarial accounting, filing systems and records management, conference and meeting recording, report preparation, office equipment and procedures, office supervisory skills, and professional standards and legal requirements.

Illustrative example(s)

- executive assistant
- executive secretary

Exclusion(s)

- legal secretary (See 22.0301-Legal administrative assistant/secretary)
- medical executive assistant (See 51.0716-Medical administrative/executive assistant and medical secretary)
- secretary (See 52.0401-Administrative assistant and secretarial science, general)

52.0406 Receptionist

This instructional program class comprises any program that prepares individuals to perform frontline public relations duties for a business, organization, or answering service. These programs include courses in telephone answering techniques, responding to information requests, keeping caller and/or visitor records, placing business calls, operating telephone switchboards and/or other communications equipment, relaying incoming and interoffice calls, schedule maintenance, and public relations skills.

Illustrative example(s)

- operator-receptionist
- receptionist
- telephone operator

Exclusion(s)

- customer service (See 52.0411-Customer service support/call centre/teleservice operation)
- dental receptionist (See 51.0712-Medical reception/receptionist)
- secretary-receptionist (See 52.0401-Administrative assistant and secretarial science, general)

52.0407 Business/office automation/technology/data entry

This instructional program class comprises any program that prepares individuals to support business information operations by using computer equipment to enter, process, and retrieve data for a wide variety of administrative purposes. These programs include courses in using basic business software and hardware; business computer networking; principles of desktop publishing; preparing mass mailings; compiling and editing spreadsheets; list maintenance; preparing tables and graphs; receipt control; and preparing business performance reports.

Illustrative example(s)

- applied business technology
- business information processing
- information processing, business
- office automation

Exclusion(s)

- business information technology (See 11.0103-Information technology)
- data entry (See 11.0601-Data entry/microcomputer applications, general)
- data processing (See 11.0301-Data processing and data processing technology/technician)
- desktop publishing (See 10.0303-Prepress/desktop publishing and digital imaging design)
- word processing (See 11.0602-Word processing)

52.0408 General office occupations and clerical services

This instructional program class comprises any program that prepares individuals to provide basic administrative support under the supervision of office managers, administrative assistants, secretaries, and other office

personnel. These programs include courses in typing, keyboarding, filing, general business correspondence, office equipment operation, and communications skills.

Illustrative example(s)

- administrative clerk
- clerk typist
- office clerk
- office skills
- typing

Exclusion(s)

- legal assistant (See 22.0302-Legal assistant/paralegal)
- medical clerk (See 51.0710-Medical office assistant/specialist)
- receptionist (See 52.0406-Receptionist)
- sales clerk (See 52.1804-Selling skills and sales operations)
- secretary (See 52.0401-Administrative assistant and secretarial science, general)
- transportation clerk (See 52.0410-Traffic, customs and transportation clerk/technician)
- word processing (See 11.0602-Word processing)

52.0409 Parts, warehousing and inventory management operations

This instructional program class comprises any program that prepares individuals to provide administrative, technical, and managerial support in the operation of warehouses, control of inventory, parts identification, and the performance of counter services for customers. These programs include courses in record keeping, equipment operation, database entry, supply logistics, shop operations and math, and customer and supplier relations.

Illustrative example(s)

- inventory control
- inventory management
- parts and warehousing management
- parts management
- warehouse management
- warehousing management

Exclusion(s)

- auto parts sales (See 52.1907-Vehicle and vehicle parts and accessories marketing operations)
- logistics and material management (See 52.0203-Logistics, materials, and supply chain management)
- parts and warehousing operations and maintenance (See 47.0409-Parts and warehousing operations and maintenance technology/technician)
- procurement management (See 52.0202-Purchasing, procurement/acquisitions and contracts management)

52.0410 Traffic, customs and transportation clerk/technician

This instructional program class comprises any program that prepares individuals to perform duties associated with managing revenue-based customs, traffic, or transportation services, such as control of domestic and international traffic, toll roads and waterways, and to assist in the dispatch and control of fleet-based traffic for businesses and public services. These programs include courses in record keeping; preparation of customs and transportation documentation; operation of communications equipment; basic transportation operations management; tariffs, rates and fares; revenue collection and change-making; and interpretation of customs or transportation regulations and related legislation, policies, and procedures.

Illustrative example(s)

- customs clerk
- customs technician
- traffic clerk

- traffic technician
- transportation clerk
- transportation technician

Exclusion(s)

- air traffic controller (See 49.0105-Air traffic controller)
- traffic control - flagging (See 49.0207-Flagging and traffic control)
- train dispatcher (See 49.0208-Railroad and railway transportation)
- transportation engineering (See 14.0804-Transportation and highway engineering)
- transportation management (See 52.0209-Transportation/mobility management)
- transportation planning (See 44.0403-Public transportation and infrastructure planning/studies)

52.0411 Customer service support/call centre/teleservice operation

This instructional program class comprises any program that prepares individuals to assist customers with inquiries and problems in frontline call centres, help desks, teleservice centres, and online. These programs include courses in user interfaces and user behaviour; principles of hardware and software systems operation; customer interaction skills; telephone and e-mailing skills; data entry; and database and Internet searching and retrieval.

Illustrative example(s)

- call centre
- call centre service representative
- customer service
- customer service by telephone
- customer service representative
- customer service support
- teleservice
- teleservice customer representative
- teleservice operation

Exclusion(s)

- computer support specialist (See 11.1006-Computer support specialist)
- customer service management (See 52.0207-Customer service management)
- receptionist (See 52.0406-Receptionist)
- sales clerk (See 52.1804-Selling skills and sales operations)

52.0499 Business operations support and assistant services, other

This instructional program class comprises any program not listed above that relates to Business operations support and assistant services.

Illustrative example(s)

- automotive service advisor
- comptometer operator
- other business operations support and assistant services

Exclusion(s)

- accounting clerk (See 52.0302-Accounting technology/technician and bookkeeping)
- legal assistant (See 22.0302-Legal assistant/paralegal)
- medical clerk (See 51.0710-Medical office assistant/specialist)
- medical secretary (See 51.0716-Medical administrative/executive assistant and medical secretary)
- secretary (See 52.0401-Administrative assistant and secretarial science, general)
- word processing (See 11.0602-Word processing)

52.05 Business/corporate communications

This subseries comprises instructional program classes 52.0501 to 52.0599.

52.0501 Business/corporate communications, general

This instructional program class comprises any program that prepares individuals to function in an organization as a composer, editor, and proofreader of business or business-related communications.

Illustrative example(s)

- business communications
- corporate communications

Exclusion(s)

- communication sciences (See 09.0100-Communication, general)
- English technical and professional writing (See 23.1303-English professional, technical, business, and scientific writing)
- French technical and business writing (See 55.1303-French professional, technical, business, and scientific writing^{CAN})
- mass communication (See 09.0102-Mass communication/media studies)
- organizational communication (See 09.0901-Organizational communication, general)
- public relations (See 09.0902-Public relations/image management)
- speech communication (See 09.0101-Speech communication and rhetoric)

52.0502 Grantsmanship

This instructional program class comprises any program that prepares individuals to develop and write grant proposals to support an organization or cause. These programs include courses in identifying grant opportunities, developing an effective proposal, budget justifications, and developing a working relationship with the funder.

Illustrative example(s)

- art of grantsmanship
- art of obtaining grants
- grantsmanship

Exclusion(s)

- fundraising (See 52.0206-Non-profit/public/organizational management)

52.0599 Business/corporate communications, other

This instructional program class comprises any program not listed above that relates to Business/corporate communications.

Illustrative example(s)

- other business communications
- other corporate communications

52.06 Business/managerial economics

This subseries comprises instructional program class 52.0601.

52.0601 Business/managerial economics

This instructional program class comprises any program that focuses on the application of economic principles to the analysis of the organization and operation of business enterprises. These programs include courses in monetary theory, banking and financial systems, theory of competition, pricing theory, wage and salary/incentive theory, analysis of markets, and applications of econometrics and quantitative methods to the study of particular businesses and business problems.

Illustrative example(s)

- business economics
- financial economics
- management economics

Exclusion(s)

- applied economics (See 45.0602-Applied economics)
- consumer economics (See 19.0402-Consumer economics)
- econometrics (See 45.0603-Econometrics and quantitative economics)
- economics (See 45.0601-Economics, general)

52.07 Entrepreneurial and small business operations

This subseries comprises instructional program classes 52.0701 to 52.0799.

52.0701 Entrepreneurship/entrepreneurial studies

This instructional program class comprises any program that generally prepares individuals to perform development, marketing and management functions associated with owning and operating a business.

Illustrative example(s)

- business entrepreneurship
- business start-up
- entrepreneurial studies
- entrepreneurship

Exclusion(s)

- business (See 52.0101-Business/commerce, general)
- business administration (See 52.0201-Business administration and management, general)
- franchise operations (See 52.0702-Franchising and franchise operations)
- small business management (See 52.0703-Small business administration/management)

52.0702 Franchising and franchise operations

This instructional program class comprises any program that prepares individuals to manage and operate franchises. These programs include courses in legal requirements, set-up costs and capitalization requirements, financing, and applications to specific franchise opportunities.

Illustrative example(s)

- franchise operations
- franchising

Exclusion(s)

- entrepreneurship (See 52.0701-Entrepreneurship/entrepreneurial studies)
- hospitality management (See 52.0901-Hospitality administration/management, general)
- restaurant management (See 52.0905-Restaurant/food services management)
- small business management (See 52.0703-Small business administration/management)
- social entrepreneurship (See 52.0704-Social entrepreneurship)

52.0703 Small business administration/management

This instructional program class comprises any program that prepares individuals to develop and manage independent small businesses. These programs include courses in business administration; enterprise planning and entrepreneurship; start-up; small business operations and problems; personnel supervision; capitalization and investment; taxation; business laws and regulations; e-commerce; home business operations; and applications to specific sectors, products, and services.

Illustrative example(s)

- small and medium enterprise management
- small business administration
- small business management
- small business management and ownership

Exclusion(s)

- business administration (See 52.0201-Business administration and management, general)
- entrepreneurship (See 52.0701-Entrepreneurship/entrepreneurial studies)

52.0704 Social entrepreneurship

This instructional program class comprises any program that focuses on blending entrepreneurial ideas and management skills for issue advocacy and social change. These programs include courses in philanthropy, business modelling, design, entrepreneurship, finance, investing, resource management, project management, prototype development, and marketing.

Illustrative example(s)

- social entrepreneurship

Exclusion(s)

- community organization and advocacy (See 44.0201-Community organization and advocacy)
- entrepreneurship (See 52.0701-Entrepreneurship/entrepreneurial studies)
- socially-engaged art (See 50.1101-Community/environmental/socially-engaged art)

52.0799 Entrepreneurial and small business operations, other

This instructional program class comprises any program not listed above that relates to Entrepreneurial and small business operations.

Illustrative example(s)

- other entrepreneurial and small business operations

52.08 Finance and financial management services

This subseries comprises instructional program classes 52.0801 to 52.0899.

52.0801 Finance, general

This instructional program class comprises any program that generally prepares individuals to plan, manage, and analyse the financial and monetary aspects and performance of business enterprises, banking institutions, or other organizations. These programs include courses in principles of accounting; financial instruments; capital planning; funds acquisition; asset and debt management; budgeting; financial analysis; and investments and portfolio management.

Illustrative example(s)

- business finance
- finance
- financial management

Exclusion(s)

- accounting and finance (See 52.0304-Accounting and finance)
- banking and financial support services (See 52.0803-Banking and financial support services)
- financial planning (See 52.0804-Financial planning and services)
- financial risk management (See 52.0810-Financial risk management)
- financial services marketing (See 52.1908-Business and personal/financial services marketing operations)
- public finance (See 52.0808-Public finance)

52.0803 Banking and financial support services

This instructional program class comprises any program that prepares individuals to perform a wide variety of customer services in banks, insurance agencies, savings and loan companies, and related enterprises. These programs include courses in communications and public relations skills, business equipment operation, and technical skills applicable to the methods and operations of specific financial or insurance services.

Illustrative example(s)

- banking and financial support services

Exclusion(s)

- credit management (See 52.0809-Credit management)
- e-commerce (See 52.0208-E-commerce/electronic commerce)
- finance (See 52.0801-Finance, general)
- financial investments (See 52.0807-Investments and securities)

52.0804 Financial planning and services

This instructional program class comprises any program that prepares individuals to plan and manage the financial interests and growth of individuals and institutions. These programs include courses in portfolio management, investment management, estate planning, insurance, tax planning, strategic investing and planning, financial consulting services, and client relations.

Illustrative example(s)

- certified financial planner
- financial advisor
- financial planner
- financial planning
- financial services
- financial services management
- investment advisor
- personal financial planning

Exclusion(s)

- credit management (See 52.0809-Credit management)
- finance (See 52.0801-Finance, general)
- financial investments (See 52.0807-Investments and securities)
- life insurance (See 52.1701-Insurance)
- urban planning (See 04.0301-City/urban, community and regional planning)

52.0806 International finance

This instructional program class comprises any program that prepares individuals to manage international financial operations and related currency transactions. These programs include courses in international banking, international monetary and financial policy, money and capital markets, foreign exchange, risk analysis, and international cash flow operations.

Illustrative example(s)

- international finance

Exclusion(s)

- finance (See 52.0801-Finance, general)
- international business (See 52.1101-International business/trade/commerce)
- international development (See 45.0604-Development economics and international development)
- international economics (See 45.0605-International economics)
- international public policy (See 44.0504-International public policy analysis)

52.0807 Investments and securities

This instructional program class comprises any program that prepares individuals to manage assets placed in capital markets, and related technical operations. These programs include courses in security analysis, debt and equity analysis, investment strategies, securities markets, computer-assisted research, portfolio management, portfolio performance analysis, and applications to specific investment problems and business situations.

Illustrative example(s)

- asset and wealth management
- Canadian securities
- financial investments
- financial securities
- investment management
- investments and securities
- securities
- stock broker
- stockbroker

Exclusion(s)

- finance (See 52.0801-Finance, general)
- investment advisor (See 52.0804-Financial planning and services)
- real estate (See 52.1501-Real estate)
- security services administration (See 43.0112-Securities services administration/management)

52.0808 Public finance

This instructional program class comprises any program that prepares individuals to manage the financial assets and budgets of public sector organizations. These programs include courses in public trusts and investments; the laws and procedures used to plan, prepare and administer public agency budgets; and the preparation and analysis of public budget projections and policies.

Illustrative example(s)

- public finance
- public sector financial management

Exclusion(s)

- finance (See 52.0801-Finance, general)
- financial risk management (See 52.0810-Financial risk management)
- public administration (See 44.0401-Public administration, general)

52.0809 Credit management

This instructional program class comprises any program that prepares individuals to perform and/or manage operations concerning personal and corporate credit, collateral, loan processing, and related financial agency communications. These programs include courses in general finance and banking principles, insurance, real estate, taxation, business laws and regulations, quantitative methods, financial computer systems applications, database management, communications skills, business and office management, and professional standards and ethics.

Illustrative example(s)

- commercial credit
- credit management
- mortgage broker

Exclusion(s)

- banking and financial support services (See 52.0803-Banking and financial support services)

- finance (See 52.0801-Finance, general)

52.0810 Financial risk management

This instructional program class comprises any program that focuses on the strategies used to define and manage acceptable financial risk for companies. These programs include courses in banking and bank regulations, derivative securities, interest rate and credit markets, financial engineering of systematic risk, and equity, bond, futures, and options markets.

Illustrative example(s)

- financial risk management

Exclusion(s)

- financial management (See 52.0801-Finance, general)
- public sector financial management (See 52.0808-Public finance)
- risk management (See 52.0215-Risk management)

52.0899 Finance and financial management services, other

This instructional program class comprises any program not listed above that relates to Finance and financial management services.

Illustrative example(s)

- other finance and financial management services

52.09 Hospitality administration/management

This subseries comprises instructional program classes 52.0901 to 52.0999.

52.0901 Hospitality administration/management, general

This instructional program class comprises any program that prepares individuals to serve as general managers and directors of hospitality operations on a system-wide basis, including both travel arrangements and promotion and the provision of traveller facilities. These programs include courses in principles of operations in the travel and tourism, hotel and lodging facilities, food services, and recreation facilities industries; hospitality marketing strategies; hospitality planning; management and coordination of franchise and unit operations; business management; accounting and financial management; hospitality transportation and logistics; and hospitality industry policies and regulations.

Illustrative example(s)

- hospitality administration
- hospitality and tourism administration
- hospitality and tourism management
- hospitality management

Exclusion(s)

- facilities management (See 19.0604-Facilities planning and management)
- hospitality and recreation marketing operations (See 52.1910-Hospitality and recreation marketing operations)
- hotel management (See 52.0904-Hotel/motel administration/management)
- recreation facilities management (See 31.0301-Parks, recreation, and leisure facilities management, general)
- resort management (See 52.0906-Resort management)
- sports and fitness management (See 31.0504-Sport and fitness administration/management)
- tourism and hotel management (See 52.0999-Hospitality administration/management, other)
- tourism and travel services management (See 52.0903-Tourism and travel services management)

52.0903 Tourism and travel services management

This instructional program class comprises any program that prepares individuals to manage travel-related enterprises and related convention and/or tour services. These programs include courses in travel agency management, tour arranging and planning, convention and event planning, travel industry operations and procedures, tourism marketing and promotion strategies, travel counselling, travel industry law, international and domestic operations, and travel and tourism policy.

Illustrative example(s)

- tourism and travel management
- tourism and travel services management
- travel industry management

Exclusion(s)

- events and convention management (See 52.0907-Meeting and event planning)
- hospitality and tourism management (See 52.0901-Hospitality administration/management, general)
- leisure studies (See 31.0101-Parks, recreation, and leisure studies)
- recreation facilities management (See 31.0301-Parks, recreation, and leisure facilities management, general)
- sports and fitness management (See 31.0504-Sport and fitness administration/management)
- tourism and travel services marketing operations (See 52.1905-Tourism and travel services marketing operations)
- tourism promotion operations (See 52.1906-Tourism promotion operations)
- travel and exploration (See 36.0109-Travel and exploration (not for credit))
- wildland recreation (See 03.0207-Environmental/natural resource recreation and tourism)

52.0904 Hotel/motel administration/management

This instructional program class comprises any program that prepares individuals to manage operations and facilities that provide lodging services to the travelling public. These programs include courses in hospitality industry principles; supplies purchasing, storage and control; hotel facilities design and planning; hospitality industry law; personnel management and labour relations; financial management; marketing and sales promotion; convention and event management; front desk operations; and applications to specific types of hotel and motel operations.

Illustrative example(s)

- hotel administration
- hotel management
- inn management
- motel administration
- motel management

Exclusion(s)

- casino management (See 52.0908-Casino management)
- facilities management (See 19.0604-Facilities planning and management)
- hotel, motel, and restaurant management (See 52.0909-Hotel, motel, and restaurant management)
- resort management (See 52.0906-Resort management)
- restaurant culinary management (See 12.0504-Restaurant, culinary and catering management/manager)
- restaurant management (See 52.0905-Restaurant/food services management)

52.0905 Restaurant/food services management

This instructional program class comprises any program that prepares individuals to plan, manage, and market restaurants, food services in hospitality establishments, food service chains and franchise networks, and restaurant supply operations. These programs include courses in hospitality administration, food services management, wholesale logistics and distribution, franchise operations, business networking, personnel

management, culinary arts, business planning and capitalization, food industry operations, marketing and retailing, business laws and regulations, finance, and professional standards and ethics.

Illustrative example(s)

- restaurant management
- restaurant manager

Exclusion(s)

- brewpub management (See 52.0910-Brewery/brewpub management)
- dietary and food service management (See 19.0505-Foodservice systems administration/management)
- facilities management (See 19.0604-Facilities planning and management)
- hotel management (See 52.0904-Hotel/motel administration/management)
- hotel, motel, and restaurant management (See 52.0909-Hotel, motel, and restaurant management)
- restaurant culinary management (See 12.0504-Restaurant, culinary and catering management/manager)

52.0906 Resort management

This instructional program class comprises any program that prepares individuals to plan, manage, and market comprehensive vacation facilities and services and related products. These programs include courses in hospitality administration, hotel/motel management, restaurant and food services management, facilities planning, leisure studies, recreation administration, marketing, recreation equipment and grounds operations and maintenance, business finance, insurance and taxation, event management and guest services, personnel management, travel and logistics management, safety and health services, professional standards and ethics, and applications to specific vacation types and locations.

Illustrative example(s)

- resort management
- ski resort management
- ski resort operations and management
- spa management

Exclusion(s)

- casino management (See 52.0908-Casino management)
- hotel management (See 52.0904-Hotel/motel administration/management)
- recreation club management (See 31.0301-Parks, recreation, and leisure facilities management, general)
- restaurant management (See 52.0905-Restaurant/food services management)
- sports and fitness management (See 31.0504-Sport and fitness administration/management)

52.0907 Meeting and event planning

This instructional program class comprises any program that prepares individuals to plan, budget, and implement conferences, meetings, and other special events in the public or private sectors. These programs include courses in principles of meeting and event planning; special event management; budgets and finance; site selection; contracts, vendors, and negotiations; marketing and promotions; food and beverage management; audio-visual basics and meeting technology; and hospitality law.

Illustrative example(s)

- conference management
- conference planning
- conventions and meetings management
- events and convention coordination
- events and convention management
- exposition, convention and trade show management
- festivals/community events management
- meeting and event planning
- special event management

- wedding planning

Exclusion(s)

- facility planning (See 19.0604-Facilities planning and management)
- logistics planning (See 52.0203-Logistics, materials, and supply chain management)
- sport and event marketing (See 52.1910-Hospitality and recreation marketing operations)
- tourism and travel services management (See 52.0903-Tourism and travel services management)

52.0908 Casino management

This instructional program class comprises any program that prepares individuals to manage casinos and gaming establishments. These programs include courses in business and financial management; casino operations; casino security and surveillance; hospitality, facilities, and personnel management; and principles of the gaming industry, ethics, and gaming law.

Illustrative example(s)

- casino management
- gaming and casino management
- hospitality and casino management

Exclusion(s)

- casino dealer (See 12.0602-Casino dealing)
- hotel management (See 52.0904-Hotel/motel administration/management)
- resort management (See 52.0906-Resort management)

52.0909 Hotel, motel, and restaurant management

This instructional program class comprises any program that prepares individuals to manage operations and facilities that provide food and/or lodging services to the traveling public. These programs include courses in hospitality industry principles; supplies purchasing, storage, and control; hotel and restaurant facilities design and planning; hospitality industry law; personnel management and labour relations; financial management; facilities management; marketing and sale promotion strategies; convention and event management; front desk operations; and applications to specific types of hotel, motel, and/or restaurant operations.

Illustrative example(s)

- hotel, motel, and restaurant management

Exclusion(s)

- hotel management (See 52.0904-Hotel/motel administration/management)
- restaurant management (See 52.0905-Restaurant/food services management)

52.0910 Brewery/brewpub management

This instructional program class comprises any program that prepares individuals to plan, manage, and market breweries and brewpubs. These programs include courses in brewing science, food services management, logistics and distribution, business networking, personnel management, business planning and capitalization, brewing industry operations, marketing, alcohol and liquor law and regulations, finance, and ethics.

Illustrative example(s)

- brewery management
- brewery marketing
- brewpub management
- brewpub marketing

Exclusion(s)

- brewing operations management (See 01.1003-Brewing science)

- brewmaster and brewery operations management (See 01.1003-Brewing science)
- restaurant management (See 52.0905-Restaurant/food services management)

52.0999 Hospitality administration/management, other

This instructional program class comprises any program not listed above that relates to Hospitality administration/management.

Illustrative example(s)

- other hospitality administration/management
- tourism and hotel management

52.10 Human resources management and services

This subseries comprises instructional program classes 52.1001 to 52.1099.

52.1001 Human resources management/personnel administration, general

This instructional program class comprises any program that generally prepares individuals to manage the development of human capital in organizations, and to provide related services to individuals and groups. These programs include courses in personnel and organization policy, human resource dynamics and flows, labour relations, sex roles, civil rights, human resources laws and regulations, motivation and compensation systems, work systems, career management, employee testing and assessment, recruitment and selection, managing employee and job training programs, and the management of human resources programs and operations.

Illustrative example(s)

- human resources
- human resources administration
- human resources management
- personnel administration
- personnel management

Exclusion(s)

- human resources development (See 52.1005-Human resources development)
- labour-management relations (See 52.1002-Labour and industrial relations)
- office management (See 52.0204-Office management and supervision)
- operations management (See 52.0205-Operations management and supervision)

52.1002 Labour and industrial relations

This instructional program class comprises any program that focuses on employee-management interactions and the management of issues and disputes regarding working conditions and worker benefit packages, and that prepares individuals to function as labour or personnel relations specialists. These programs include courses in labour history, policies and strategies of the labour movement, union organization, labour-management negotiation, labour law and contract interpretation, labour economics, welfare and benefit packages, grievance procedures, and labour policy studies.

Illustrative example(s)

- industrial relations
- labour relations
- labour relations administration
- labour-management relations

Exclusion(s)

- dispute resolution (See 30.2801-Dispute resolution)
- human resources management (See 52.1001-Human resources management/personnel administration, general)

- labour law (graduate level) (See 22.0220-Human resources law/labour and employment law (LLM, LLD, JSD/SJD))
- labour studies (See 52.1004-Labour studies)
- organizational psychology (See 42.2804-Industrial and organizational psychology)

52.1003 Organizational behaviour studies

This instructional program class comprises any program that focuses on the scientific study of the behaviour and motivations of individuals functioning in organized groups, and its application to business and industrial settings. These programs include courses in organization theory, industrial and organizational psychology, social psychology, sociology of organizations, reinforcement and incentive theory, employee relations strategies, organizational power and influence, organization stratification and hierarchy, leadership styles, and applications of operations research and other methodologies to organizational analysis.

Illustrative example(s)

- organizational behaviour
- organizational behaviour studies

Exclusion(s)

- behavioural science (See 30.1701-Behavioural sciences)
- human resources management (See 52.1001-Human resources management/personnel administration, general)
- labour studies (See 52.1004-Labour studies)
- organizational communication (See 09.0901-Organizational communication, general)
- organizational leadership (See 52.0213-Organizational leadership)
- organizational psychology (See 42.2804-Industrial and organizational psychology)

52.1004 Labour studies

This instructional program class comprises any program that focuses on the study of various aspects of work, labour organization and policy, and labour movements from the perspective of the social sciences and history. These programs include courses in labour history; political and ideological issues; worker movements and social organizations; civil rights; labour law and policy studies; labour economics; international and comparative labour studies; and applications to specific industries, groups, locations, and time periods.

Illustrative example(s)

- labour and workplace studies
- labour studies

Exclusion(s)

- labour law (graduate level) (See 22.0220-Human resources law/labour and employment law (LLM, LLD, JSD/SJD))
- labour relations (See 52.1002-Labour and industrial relations)
- organizational psychology (See 42.2804-Industrial and organizational psychology)

52.1005 Human resources development

This instructional program class comprises any program that prepares individuals to apply integrated training, organizational development, and career planning and counselling skills to the design, management, and evaluation of programs to improve individual productivity, employability, and job satisfaction and organizational effectiveness. These programs include courses in psychology; organizational behaviour; principles of adult education; occupational counselling; skill testing and evaluation; program design; consulting practice; organizational development; and applications to issues such as training, management development, customer service, and total quality management.

Illustrative example(s)

- human resources development

Exclusion(s)

- human resources management (See 52.1001-Human resources management/personnel administration, general)

52.1006 Executive/career coaching

This instructional program class comprises any program that focuses on assisting individuals achieve career goals or assisting business leaders achieve organizational change. These programs include courses in executive coaching, group dynamics, leadership, management, organizational behavior, organizational communication, and team building.

Illustrative example(s)

- business coaching
- career coaching
- executive coaching

Exclusion(s)

- life coaching (not for credit) (See 35.0105-Life coaching (not for credit))
- organizational leadership (See 52.0213-Organizational leadership)

52.1099 Human resources management and services, other

This instructional program class comprises any program not listed above that relates to Human resources management and services.

Illustrative example(s)

- other human resources management and services
- pay supervisor
- payroll administration
- payroll clerk
- payroll compliance practitioner
- payroll management

Exclusion(s)

- accounting clerk (See 52.0302-Accounting technology/technician and bookkeeping)
- public accounting (See 52.0301-Accounting)
- vocational rehabilitation counselling (See 51.2310-Vocational rehabilitation counselling/counsellor)

52.11 International business/trade/commerce

This subseries comprises instructional program class 52.1101.

52.1101 International business/trade/commerce

This instructional program class comprises any program that prepares individuals to manage international businesses and/or business operations. These programs include courses in the principles and processes of export sales, trade controls, foreign operations and related problems, monetary issues, international business policy, and applications to doing business in specific countries and markets.

Illustrative example(s)

- foreign trade
- global business
- global commerce
- global management
- international business
- international business management
- international commerce

- international import-export business
- international management
- international trade

Exclusion(s)

- international business law (graduate level) (See 22.0210-International business, trade and tax law (LLM, LLD, JSD/SJD))
- international development (See 45.0604-Development economics and international development)
- international economics (See 45.0605-International economics)
- international finance (See 52.0806-International finance)
- international marketing (See 52.1403-International marketing)
- international public policy (See 44.0504-International public policy analysis)
- international relations (See 45.0901-International relations and affairs)
- international studies (See 30.2001-International/globalization studies)

52.12 Management information systems and services

This subseries comprises instructional program classes 52.1201 to 52.1299.

52.1201 Management information systems, general

This instructional program class comprises any program that generally prepares individuals to provide and manage data systems and related facilities for processing and retrieving internal business information; select systems and train personnel; and respond to external data requests. These programs include courses in cost and accounting information systems, management control systems, personnel information systems, data storage and security, business systems networking, report preparation, computer facilities and equipment operation and maintenance, operator supervision and training, and management information systems policy and planning.

Illustrative example(s)

- business information management
- business information systems
- information system administration
- information system management
- management information systems

Exclusion(s)

- business information technology (See 11.0103-Information technology)
- computer and information sciences (See 11.0101-Computer and information sciences, general)
- computer systems analyst (See 11.0501-Computer systems analysis/analyst)
- information resources management (See 52.1206-Information resources management)
- information science (See 11.0401-Information science/studies)
- information systems security (See 11.1003-Computer and information systems security/auditing/information assurance)

52.1206 Information resources management

This instructional program class comprises any program that prepares individuals to apply principles of information technology, computer systems management, and business operations to the planning, management, and evaluation of information services in organizations. These programs include courses in telecommunications, systems planning and integration, information policy, information security, contracting and purchasing, budgeting, information technology, operations management, human resources, communications skills, and applicable laws and regulations.

Illustrative example(s)

- chief information officer training
- information management
- information resources management

Exclusion(s)

- computer and information sciences (See 11.0101-Computer and information sciences, general)
- information science (See 11.0401-Information science/studies)
- information systems security (See 11.1003-Computer and information systems security/auditing/information assurance)
- management information systems (See 52.1201-Management information systems, general)

52.1207 Knowledge management

This instructional program class comprises any program that focuses on the study of knowledge management in government agencies and corporations for the purpose of supporting stated organizational goals and objectives, and prepares individuals to function as information resource managers. These programs include courses in information technology, principles of computer and information systems, management information systems, applicable policy and regulations, and operations and personnel management.

Illustrative example(s)

- knowledge management

Exclusion(s)

- information resources management (See 52.1206-Information resources management)
- management information systems (See 52.1201-Management information systems, general)

52.1299 Management information systems and services, other

This instructional program class comprises any program not listed above that relates to Management information systems and services.

Illustrative example(s)

- other management information systems and services

52.13 Management sciences and quantitative methods

This subseries comprises instructional program classes 52.1301 to 52.1399.

52.1301 Management science

This instructional program class comprises any general program that focuses on the application of statistical modelling, data warehousing, data mining, programming, forecasting and operations research techniques to the analysis of problems of business organization and performance. These programs include courses in optimization theory and mathematical techniques, data mining, data warehousing, stochastic and dynamic modelling, operations analysis, and the design and testing of prototype systems and evaluation models.

Illustrative example(s)

- business intelligence
- competitive intelligence
- management science

Exclusion(s)

- business administration (See 52.0201-Business administration and management, general)
- business statistics (See 52.1302-Business statistics)
- law enforcement intelligence analysis (See 43.0408-Law enforcement intelligence analysis)
- operations research (See 14.3701-Operations research)
- science and technology management (See 52.0216-Science/technology management)

52.1302 Business statistics

This instructional program class comprises any program that focuses on the application of mathematical statistics to the description, analysis, and forecasting of business data. These programs include courses in statistical theory and methods, computer applications, data analysis and display, long- and short-term forecasting methods, and market performance analysis.

Illustrative example(s)

- business statistics

Exclusion(s)

- actuarial mathematics (See 52.1304-Actuarial science)
- business analytics (See 30.7102-Business analytics)
- mathematical statistics (See 27.0502-Mathematical statistics and probability)
- statistics (See 27.0501-Statistics, general)

52.1304 Actuarial science

This instructional program class comprises any program that focuses on the mathematical and statistical analysis of risk, and their application to insurance and other business management problems. These programs include courses in forecasting theory, quantitative and non-quantitative risk measurement methodologies, development of risk tables, secondary data analysis, and computer-assisted research methods.

Illustrative example(s)

- actuarial mathematics
- actuarial science

Exclusion(s)

- business finance (See 52.0801-Finance, general)
- business statistics (See 52.1302-Business statistics)
- investments and securities (See 52.0807-Investments and securities)

52.1399 Management sciences and quantitative methods, other

This instructional program class comprises any program not listed above that relates to Management sciences and quantitative methods.

Illustrative example(s)

- other management sciences and quantitative methods

52.14 Marketing

This subseries comprises instructional program classes 52.1401 to 52.1499.

52.1401 Marketing/marketing management, general

This instructional program class comprises any program that generally prepares individuals to undertake and manage the process of developing consumer audiences and moving products from producers to consumers. These programs include courses in buyer behaviour and dynamics, principles of marketing research, demand analysis, cost-volume and profit relationships, pricing theory, marketing campaign and strategic planning, market segments, advertising methods, sales operations and management, consumer relations, retailing, and applications to specific products and markets.

Illustrative example(s)

- business administration - marketing
- marketing
- marketing administration
- marketing management

- marketing studies

Exclusion(s)

- cannabis-related marketing and marketing operations (See 52.1980-Cannabis-related marketing and marketing operations^{CAN})
- digital marketing (See 52.1404-Digital marketing)
- marketing communications (See 09.0903-Advertising)
- marketing research (See 52.1402-Marketing research)
- pharmaceutical marketing and management (See 51.2011-Pharmaceutical marketing and management)
- sales and marketing (See 52.1801-Sales, distribution and marketing operations, general)
- sales and marketing operations teacher education (See 13.1310-Sales and marketing operations/marketing and distribution teacher education)

52.1402 Marketing research

This instructional program class comprises any program that prepares individuals to provide analytical descriptions of consumer behaviour patterns and market environments to marketing managers and other business decision makers. These programs include courses in survey research methods, research design, new product test marketing, exploratory marketing, consumer needs and preferences analysis, geographic analysis, and applications to specific products and markets.

Illustrative example(s)

- marketing research

Exclusion(s)

- marketing (See 52.1401-Marketing/marketing management, general)
- research and development management (See 52.0210-Research and development management)
- social research methods (See 45.0102-Research methodology and quantitative methods)

52.1403 International marketing

This instructional program class comprises any program that prepares individuals to perform marketing activities in enterprises primarily engaged in exporting or importing goods and services in world markets. These programs include courses in international trade controls, foreign trade operations, locating markets, negotiation practices, monetary issues, and international public relations.

Illustrative example(s)

- international marketing

Exclusion(s)

- international business (See 52.1101-International business/trade/commerce)
- marketing (See 52.1401-Marketing/marketing management, general)

52.1404 Digital marketing

This instructional program class comprises any program that prepares individuals to develop a digital marketing plan and integrate marketing, advertising, sales, and logistics across physical and digital channels. These programs include courses in digital marketing, e-commerce, online consumer psychology, search engine optimization, social media marketing, and web analytics.

Illustrative example(s)

- cybermarketing
- digital marketing
- e-marketing
- electronic marketing

Exclusion(s)

- marketing (See 52.1401-Marketing/marketing management, general)

52.1499 Marketing, other

This instructional program class comprises any program not listed above that relates to Marketing.

Illustrative example(s)

- other marketing

Exclusion(s)

- e-marketing (See 52.1404-Digital marketing)
- merchandising (See 52.1802-Merchandising and buying operations)
- sales and marketing (See 52.1801-Sales, distribution and marketing operations, general)

52.15 Real estate

This subseries comprises instructional program class 52.1501.

52.1501 Real estate

This instructional program class comprises any program that prepares individuals to develop, buy, sell, appraise, and manage real estate. These programs include courses in land use development policy, real estate law, real estate marketing procedures, agency management, brokerage, property inspection and appraisal, real estate investing, leased and rental properties, commercial real estate, and property management.

Illustrative example(s)

- condominium management
- property evaluation
- property management
- real estate
- real estate agent
- real estate appraisal
- real estate broker
- real estate brokerage
- real estate sales
- real property assessment

Exclusion(s)

- housing and human environments (See 19.0601-Housing and human environments, general)
- housing management (See 44.0499-Public administration, other)
- investments and securities (See 52.0807-Investments and securities)
- land management (See 03.0206-Land use planning and management/development)
- property maintenance (See 46.0401-Building/property maintenance)
- public housing management (See 44.0499-Public administration, other)
- real property development (See 04.1001-Real estate development)
- social housing management (See 44.0499-Public administration, other)

52.16 Taxation

This subseries comprises instructional program class 52.1601.

52.1601 Taxation

This instructional program class comprises any program that prepares individuals to provide tax advice and management services to individuals and corporations. These programs include courses in tax laws and regulations, tax record systems, individual and corporate income taxation, tax planning, partnerships and fiduciary

relationships, estates and trusts, property depreciation, capital gains and losses, dispositions, transfers, liquidity, valuation, and applications to specific tax problems.

Illustrative example(s)

- tax planning
- taxation

Exclusion(s)

- accounting (See 52.0301-Accounting)
- international tax law (graduate level) (See 22.0210-International business, trade and tax law (LLM, LLD, JSD/SJD))
- tax law (graduate level) (See 22.0211-Tax law/taxation (LLM, LLD, JSD/SJD))

52.17 Insurance

This subseries comprises instructional program class 52.1701.

52.1701 Insurance

This instructional program class comprises any program that prepares individuals to manage risk in organizational settings and provide insurance and risk-aversion services to businesses, individuals, and other organizations. These programs include courses in casualty insurance and general liability, property insurance, employee benefits, social and health insurance, loss adjustment, underwriting, risk theory, and pension planning.

Illustrative example(s)

- business insurance
- Canadian Accredited Insurance Broker (CAIB)
- Fellow of the Insurance Institute of Canada (FIIC)
- insurance
- insurance agent
- insurance broker
- insurance claims adjuster
- insurance management
- insurance underwriting
- life insurance

Exclusion(s)

- actuarial mathematics (See 52.1304-Actuarial science)
- health/medical claims examiner (See 51.0715-Health/medical claims examiner)
- medical insurance billing (See 51.0714-Medical insurance specialist/medical biller)
- medical insurance coding (See 51.0713-Medical insurance coding specialist/coder)

52.18 General sales, merchandising and related marketing operations

This subseries comprises instructional program classes 52.1801 to 52.1899.

52.1801 Sales, distribution and marketing operations, general

This instructional program class comprises any program that focuses on the general process and techniques of direct wholesale and retail buying and selling operations and introduces individuals to related careers. These programs include courses in the principles of entrepreneurial economics, basic sales skills, the distribution channels for goods and services, and supervised practical application experiences.

Illustrative example(s)

- retail marketing
- retail sales and marketing
- sales and marketing
- sales, distribution and marketing operations

Exclusion(s)

- marketing (See 52.1401-Marketing/marketing management, general)
- sales and marketing operations teacher education (See 13.1310-Sales and marketing operations/marketing and distribution teacher education)
- tourism and travel services marketing operations (See 52.1905-Tourism and travel services marketing operations)

52.1802 Merchandising and buying operations

This instructional program class comprises any program that prepares individuals to function as professional buyers of resale products and product lines for stores, chains, and other retail enterprises. These programs include courses in product evaluation, merchandising, applicable aspects of brand and consumer research, principles of purchasing, and negotiation skills.

Illustrative example(s)

- buyer
- merchandising
- merchandising and buying operations
- retail buyer
- retail merchandising

Exclusion(s)

- fashion merchandising (See 52.1902-Fashion merchandising)
- music merchandising (See 50.1003-Music management)
- purchasing management (See 52.0202-Purchasing, procurement/acquisitions and contracts management)

52.1803 Retailing and retail operations

This instructional program class comprises any program that prepares individuals to perform operations associated with retail sales in a variety of settings. These programs include courses in over-the-counter and other direct sales operations in business settings, basic bookkeeping principles, customer service, team/staff leadership and supervision, floor management, and applicable technical skills.

Illustrative example(s)

- retail clerk
- retail operations
- retail sales
- retailing

Exclusion(s)

- retail floristry (See 01.0608-Floriculture/floristry operations and management)
- retail management (See 52.0212-Retail management)
- sales and marketing (See 52.1801-Sales, distribution and marketing operations, general)
- sales clerk (See 52.1804-Selling skills and sales operations)

52.1804 Selling skills and sales operations

This instructional program class comprises any program that prepares individuals to possess the skills associated with direct promotion of products and services to potential customers and to function as independent sales representatives and managers. These programs include courses in consumer psychology, image projection, public speaking and interpersonal communications, sales organization and operations, customer relations, professional standards and ethics, and applicable technical skills.

Illustrative example(s)

- sales clerk
- sales management

- sales representative
- sales techniques
- salesperson
- selling skills and sales operations
- telemarketing

Exclusion(s)

- cannabis-related selling skills and sales operations (See 52.1880-Cannabis-related selling skills and sales operations^{CAN})
- car sales (See 52.1907-Vehicle and vehicle parts and accessories marketing operations)
- pharmaceutical marketing and management (See 51.2011-Pharmaceutical marketing and management)
- retail clerk (See 52.1803-Retailing and retail operations)
- sales and marketing (See 52.1801-Sales, distribution and marketing operations, general)
- sport and event marketing (See 52.1910-Hospitality and recreation marketing operations)

52.1880 Cannabis-related selling skills and sales operations^{CAN}

This instructional program class comprises any program that prepares individuals to possess the skills associated with direct promotion of cannabis products and services to potential customers and to function as cannabis sales representatives and managers. These programs include courses in over-the-counter and other direct sales; sales organization and operations; interpersonal communications; team/staff supervision; customer service; applicable laws and government regulatory and licensing requirements; professional standards and ethics; and applicable technical and administrative skills.

Illustrative example(s)

- budtender
- cannabis dispensary manager
- cannabis product wholesaling
- cannabis retail manager licence
- cannabis salesperson
- medical cannabis sales
- online retail cannabis sales
- retail cannabis sales
- Selling It Right training program
- wholesale cannabis sales

Exclusion(s)

- bud trimmer (See 01.0680-Cannabis production operations and management^{CAN})
- cannabis-related marketing and marketing operations (See 52.1980-Cannabis-related marketing and marketing operations^{CAN})
- selling skills and sales operations (See 52.1804-Selling skills and sales operations)
- serving it right (See 12.0502-Bartending/bartender)

52.1899 General sales, merchandising and related marketing operations, other

This instructional program class comprises any program not listed above that relates to General sales, merchandising and related marketing operations.

Illustrative example(s)

- other general sales, merchandising and related marketing operations

52.19 Specialized sales, merchandising and marketing operations

This subseries comprises instructional program classes 52.1901 to 52.1999.

52.1901 Auctioneering

This instructional program class comprises any program that prepares individuals for professional careers as auctioneers and auction managers, and for meeting applicable licensing requirements. These programs include courses in bid calling, public speaking, ringworking, auction techniques, salesmanship skills, auction clerking and cashiering, auction advertising, working independently or with auction houses, contracts and agencies, applicable sales law, and managing both general auctions and auctions specializing in commodities such as antiques, consignments, farm equipment, industrial equipment, real estate, livestock, and automobiles.

Illustrative example(s)

- auctioneering

Exclusion(s)

- agricultural supplies retailing and wholesaling (See 01.0105-Agricultural/farm supplies retailing and wholesaling)
- sales and marketing (See 52.1801-Sales, distribution and marketing operations, general)
- sales clerk (See 52.1804-Selling skills and sales operations)

52.1902 Fashion merchandising

This instructional program class comprises any program that prepares individuals to promote product lines/brands, and organize promotional campaigns, at the wholesale level to attract retailer interest, wholesale purchasing, and supply contracts. These programs include courses in wholesaling, wholesale advertising, selling, and customer relations.

Illustrative example(s)

- fashion marketing
- fashion merchandising

Exclusion(s)

- apparel and accessories marketing operations (See 52.1904-Apparel and textile marketing operations)
- apparel and textile marketing management (See 19.0905-Apparel and textile marketing management)
- clothing and textiles (See 19.0901-Apparel and textiles, general)
- fashion design (See 50.0407-Fashion/apparel design)

52.1903 Fashion modelling

This instructional program class comprises any program that prepares individuals to present and display fashion, apparel, and accessories products in wholesale and retail settings, either on the person or via props and natural or artificial settings. These programs include courses in modelling skills, health and cosmetic principles, fashion show management, display design and production, and applicable aspects of advertising and fashion photography.

Illustrative example(s)

- fashion modelling

Exclusion(s)

- apparel and accessories marketing operations (See 52.1904-Apparel and accessories marketing operations)
- apparel and textile marketing management (See 19.0905-Apparel and textile marketing management)
- fashion design (See 50.0407-Fashion/apparel design)
- fashion merchandising (See 52.1902-Fashion merchandising)

52.1904 Apparel and accessories marketing operations

This instructional program class comprises any program that prepares individuals to perform operations connected with the distribution and sale of apparel and accessories. These programs include courses in

wholesaling and retailing; apparel technologies; distribution; customer sales and service skills; and principles of consumer research and sales forecasting.

Illustrative example(s)

- apparel and accessories marketing operations
- fashion retail
- fashion sales representative

Exclusion(s)

- apparel and textile marketing management (See 19.0905-Apparel and textile marketing management)
- clothing and textiles (See 19.0901-Apparel and textiles, general)
- fashion merchandising (See 52.1902-Fashion merchandising)

52.1905 Tourism and travel services marketing operations

This instructional program class comprises any program that prepares individuals to provide direct retail services to hotel and motel clients and customers in a variety of settings. These programs include courses in the principles of hotel/motel operations, customer sales and assistance operations and techniques, telephone operations, and basic office management.

Illustrative example(s)

- tourism and travel
- tourism and travel services marketing operations
- tourism marketing
- tourism marketing management
- travel agent
- travel consultant
- travel counsellor
- travel marketing
- travel merchandising

Exclusion(s)

- hospitality and recreation marketing operations (See 52.1910-Hospitality and recreation marketing operations)
- hospitality and tourism management (See 52.0901-Hospitality administration/management, general)
- marketing (See 52.1401-Marketing/marketing management, general)
- tourism and hotel management (See 52.0999-Hospitality administration/management, other)
- tourism and travel services management (See 52.0903-Tourism and travel services management)
- tourism promotion operations (See 52.1906-Tourism promotion operations)
- travel and exploration (See 36.0109-Travel and exploration (not for credit))

52.1906 Tourism promotion operations

This instructional program class comprises any program that prepares individuals to perform marketing and sales operations connected with the promotion of tourism in public and private sector settings. These programs include courses in principles of marketing research and advertising, promotional campaign organization, media relations, and applicable technical and administrative skills.

Illustrative example(s)

- development and promotion of travel products
- tourism development
- tourism products promotion
- tourism promotion operations
- tourist product development

Exclusion(s)

- hospitality and recreation marketing operations (See 52.1910-Hospitality and recreation marketing operations)
- hospitality and tourism management (See 52.0901-Hospitality administration/management, general)
- hotel management (See 52.0904-Hotel/motel administration/management)
- tourism and travel services management (See 52.0903-Tourism and travel services management)
- tourism and travel services marketing operations (See 52.1905-Tourism and travel services marketing operations)
- travel and exploration (See 36.0109-Travel and exploration (not for credit))

52.1907 Vehicle and vehicle parts and accessories marketing operations

This instructional program class comprises any program that prepares individuals to perform operations connected with the distribution and sale of replacement parts and other end-use supplies in the automotive, marine, and aviation industries. These programs include courses in wholesaling and retailing; principles of vehicular technologies; storage and distribution; customer sales and service skills; and principles of consumer research and sales forecasting.

Illustrative example(s)

- auto parts sales
- automobile sales
- automotive marketing
- automotive sales
- car sales
- sales of vehicle parts and accessories
- vehicle and vehicle parts and accessories marketing operations

Exclusion(s)

- automotive parts and light warehousing (See 47.0409-Parts and warehousing operations and maintenance technology/technician)
- parts and warehousing management (See 52.0409-Parts, warehousing and inventory management operations)
- retail sales (See 52.1803-Retailing and retail operations)

52.1908 Business and personal/financial services marketing operations

This instructional program class comprises any program that prepares individuals to perform marketing and operational tasks associated with the provision of personal and financial services. These programs include courses in banking, marketing research, advertising, promotional campaign organization, insurance, media relations, and applicable technical and administrative skills.

Illustrative example(s)

- financial services marketing
- financial services marketing operations
- personal services marketing operations

Exclusion(s)

- banking and financial support services (See 52.0803-Banking and financial support services)
- financial services management (See 52.0804-Financial planning and services)
- marketing (See 52.1401-Marketing/marketing management, general)

52.1909 Special products marketing operations

This instructional program class comprises any program that prepares individuals to perform marketing and sales operations connected with the promotion of special products, including floristry, food, and home and office

products. These programs include courses in principles of marketing research and advertising, promotional campaign organization, media relations, and applicable technical and administrative skills.

Illustrative example(s)

- advertising sales
- special products marketing operations

Exclusion(s)

- advertising (See 09.0903-Advertising)
- agricultural supplies retailing and wholesaling (See 01.0105-Agricultural/farm supplies retailing and wholesaling)
- cannabis-related marketing and marketing operations (See 52.1980-Cannabis-related marketing and marketing operations^{CAN})
- floristry (See 01.0608-Floriculture/floristry operations and management)
- marketing (See 52.1401-Marketing/marketing management, general)

52.1910 Hospitality and recreation marketing operations

This instructional program class comprises any program that prepares individuals to provide marketing services in the hospitality and leisure fields. These programs include courses in hospitality operations, customer sales and assistance operations and techniques, telephone operations, basic office management, retail sports, recreation equipment, food and beverage.

Illustrative example(s)

- hospitality and recreation marketing
- hospitality and recreation marketing operations
- hospitality marketing
- sport and event marketing
- sports marketing

Exclusion(s)

- events and convention management (See 52.0907-Meeting and event planning)
- hospitality administration (See 52.0901-Hospitality administration/management, general)
- sports and fitness management (See 31.0504-Sport and fitness administration/management)
- sports studies (See 31.0508-Sports studies)
- tourism and travel services management (See 52.0903-Tourism and travel services management)
- tourism and travel services marketing operations (See 52.1905-Tourism and travel services marketing operations)
- tourism promotion operations (See 52.1906-Tourism promotion operations)

52.1980 Cannabis-related marketing and marketing operations^{CAN}

This instructional program class comprises any program that prepares individuals to perform operations connected with the distribution and sale of cannabis plants and products, related accessories and end-use supplies; promote cannabis brands and product lines; create and implement branding strategies for target markets; attract customer loyalty and retail and wholesale interest. These programs include courses in marketing research; wholesaling and retailing; storage and distribution; customer relations; customer sales, service and assistance; media relations; consumer research and sales forecasting; applicable laws and government regulatory and licensing requirements; basic office management; and applicable technical and administrative skills.

Illustrative example(s)

- cannabis branding
- cannabis marketing
- cannabis marketing and marketing operations
- cannabis marketing operations
- cannabis product branding

- cannabis-related marketing
- cannabis-related marketing and marketing operations
- cannabis-related marketing operations

Exclusion(s)

- cannabis-related selling skills and sales operations (See 52.1880-Cannabis-related selling skills and sales operations^{CAN})
- marketing (See 52.1401-Marketing/marketing management, general)
- special products marketing operations (See 52.1909-Special products marketing operations)

52.1999 Specialized sales, merchandising and marketing operations, other

This instructional program class comprises any program not listed above that relates to Specialized sales, merchandising and marketing operations.

Illustrative example(s)

- industrial marketing
- other specialized sales, merchandising and marketing operations
- scientific and medical marketing

52.20 Construction management

This subseries comprises instructional program classes 52.2001 to 52.2099.

52.2001 Construction management, general

This instructional program class comprises any program that prepares individuals to manage, coordinate, and supervise the construction process. These programs include courses in commercial, residential, mechanical, highway/heavy civil, electrical, environmental, industrial, and specialty construction; facilities management; budgeting and cost control; logistics and materials management; organization and scheduling; personnel management and labour relations; site safety; construction contracting; construction processes and techniques; and applicable codes and regulations.

Illustrative example(s)

- construction management
- general construction estimating
- quantity surveying

Exclusion(s)

- building inspection (See 46.0403-Building/home/construction inspection/inspector)
- construction engineering (See 14.3301-Construction engineering)
- construction project management (See 52.2002-Construction project management)
- construction site management (See 46.0412-Building/construction site management/manager)
- project management (See 52.0211-Project management)
- surveying (See 15.1102-Surveying)

52.2002 Construction project management

This instructional program class comprises any program that prepares individuals to apply project management knowledge, skills, tools, and techniques in the construction and facility management industries. These programs include courses in facilities operations and maintenance, construction estimating, occupational health and safety standards, sustainability, drafting, construction plans, project planning, risk management, cost and time management, contracts and procurement, accounting, statistics, decision making, and human resources.

Illustrative example(s)

- construction project management

Exclusion(s)

- construction management (See 52.2001-Construction management, general)
- project management (See 52.0211-Project management)

52.2099 Construction management, other

This instructional program class comprises any program not listed above that relates to Construction management.

Illustrative example(s)

- other construction management

52.21 Telecommunications management

This subseries comprises instructional program class 52.2101.

52.2101 Telecommunications management

This instructional program class comprises any program that prepares individuals to apply business skills to design, implement, and manage the voice, video, and data networking systems of organizations. These programs include courses in telecommunications concepts and technologies, network operations and management, wireless communications and mobile computing, cybersecurity, regulation and public policy, business practices and management, and written and oral communications.

Illustrative example(s)

- telecommunications management

Exclusion(s)

- communication management (See 09.0909-Communication management and strategic communications)
- e-commerce management (See 52.0208-E-commerce/electronic commerce)
- management (See 52.0201-Business administration and management, general)
- network management (See 11.1002-System, networking and LAN/WAN management/manager)
- telecommunication engineering (See 14.1004-Telecommunications engineering)

52.99 Business, management, marketing and related support services, other

This subseries comprises instructional program class 52.9999.

52.9999 Business, management, marketing and related support services, other

This instructional program class comprises any program not listed above that relates to Business, management, marketing and related support services.

Illustrative example(s)

- change management
- energy asset management
- land agent
- other business, management, marketing and related support services

Exclusion(s)

- construction management (See 52.2001-Construction management, general)
- payroll administration (See 52.1099-Human resources management and services, other)
- real estate broker (See 52.1501-Real estate)
- real property development (See 04.1001-Real estate development)

53. High school/secondary diploma and certificate programs

This series comprises instructional programs that define the prescribed requirements for high school/secondary school graduation. It also includes college/university preparatory programs.

53.01 High school/secondary diploma programs

This subseries comprises instructional program classes 53.0101 to 53.0199.

53.0101 Regular/general high school/secondary diploma programs

This instructional program class comprises any program that defines the prescribed minimum requirements, specified by the appropriate jurisdiction, for completion of and graduation from an undifferentiated regular secondary school program representing 12 academic years of schooling intended for school-age students.

Illustrative example(s)

- general high school diploma
- general secondary school diploma
- high school diploma
- regular high school diploma
- regular secondary school diploma
- secondary school diploma

53.0102 College/university preparatory programs

This instructional program class comprises any program that defines the prescribed requirements, specified by the appropriate jurisdiction, for academic subject matter designed to meet typical college and university entrance requirements. These programs can be taught at various educational levels. It also includes college/university preparatory programs that do not lead to a diploma or certificate.

Illustrative example(s)

- college preparatory program
- university preparatory program

53.0103 Vocational high school and secondary business/vocational-industrial/occupational diploma programs

This instructional program class comprises any program that defines the prescribed requirements, specified by the appropriate jurisdiction, for high school/secondary school graduation in a vocational program - together with other required subject matter, and that prepares individuals for specific occupations or direct labour market entry.

Illustrative example(s)

- high school business diploma
- high school industrial diploma
- high school occupational diploma
- secondary school business diploma
- secondary school industrial diploma
- secondary school occupational diploma
- vocational high school diploma
- vocational secondary school diploma

53.0104 Honours/regents high school/secondary diploma programs

This instructional program class comprises any program that defines the prescribed requirements, specified by the appropriate jurisdiction, for high school/secondary school graduation in an academic or vocational program at a prescribed level of outstanding scholastic performance, or via meeting special requirements beyond the minimum.

Illustrative example(s)

- honours high school diploma
- honours secondary school diploma
- international baccalaureate (IB)
- regents high school diploma
- regents secondary school diploma

Exclusion(s)

- International Baccalaureate teaching (See 13.1212-International Baccalaureate teaching and learning)

53.0105 Adult high school/secondary diploma programs

This instructional program class comprises any program that defines the prescribed requirements, specified by the appropriate jurisdiction, for the completion of and graduation from a secondary school program of academic subject matter offered for adult learners outside of the regular secondary school program. This does not include adult compensatory education programs resulting in completion of a high school equivalency certificate or diploma.

Illustrative example(s)

- adult high school diploma
- adult secondary school diploma

53.0199 High school/secondary diploma programs, other

This instructional program class comprises any program not listed above that relates to High school/secondary diploma programs.

Illustrative example(s)

- other high school/secondary diploma programs

53.02 High school/secondary certificate programs

This subseries comprises instructional program classes 53.0201 to 53.0299.

53.0201 High school equivalency/GED certificate programs

This instructional program class comprises any program that defines the requirements for meeting the minimum high school/secondary completion requirements, specified by the appropriate jurisdiction, for adult learners who did not complete secondary school. Includes undertaking a specified program of studies and obtaining a prescribed passing score on the General Educational Development test (GED) or provincial examinations. These certificates represent the legally recognized equivalent of secondary school graduation.

Illustrative example(s)

- adult basic education (high school equivalency)
- GED certificate
- GED diploma
- General Educational Development test (GED)
- general equivalency diploma
- high school equivalency
- high school equivalency certificate
- high school GED test
- secondary school equivalency
- secondary school GED test

Exclusion(s)

- adult basic education (except high school equivalency) (not for credit) (See 32.0101-Basic skills, general (not for credit))

- GED exam preparation (not for credit) (See 32.0202-High school equivalency/GED exam preparation (not for credit))

53.0202 High school certificate of competence programs

This instructional program class comprises any program that defines the content requirements for meeting specified performance standards in various secondary school studies that does not represent completion of and graduation from secondary school, as prescribed by the appropriate jurisdiction. Includes such requirements as passing a mandated academic achievement test and completing other specified requirements for subject-matter competence. These awards may be given for partial completion of secondary school or for achieving a specified high level of concentration and/or performance in certain subjects, and may be awarded independently or in conjunction with a high school/secondary diploma.

Illustrative example(s)

- high school certificate of competence

53.0203 Certificate of IEP completion programs

This instructional program class comprises any program that defines the requirements for meeting specified goals pertaining to an Individual Educational Program established by a local school system under the authority of the appropriate jurisdiction. These programs include courses for which the specific content varies by student and may or may not equal a regular high school/secondary school program.

Illustrative example(s)

- high school IEP certificate
- high school individual educational program certificate
- secondary school IEP certificate
- secondary school individual educational program certificate

Exclusion(s)

- individualized studies (See 24.0101-Liberal arts and sciences/liberal studies)

53.0299 High school/secondary certificate programs, other

This instructional program class comprises any program not listed above that relates to High school/secondary certificate programs.

Illustrative example(s)

- other high school/secondary certificate programs

54. History

This series comprises instructional programs that focus on the study and interpretation of past events, institutions, issues, and cultures.

54.01 History

This subseries comprises instructional program classes 54.0101 to 54.0199.

54.0101 History, general

This instructional program class comprises any program that focuses on the general study and interpretation of the past, including the gathering, recording, synthesizing and criticizing of evidence and theories about past events. These programs include courses in historiography; historical research methods; studies of specific periods, issues and cultures; and applications to areas such as historic preservation, public policy, and records administration.

Illustrative example(s)

- general history

- historical research
- historical studies
- history

Exclusion(s)

- ancient studies (See 30.2201-Ancient studies/civilization)
- art history (See 50.0703-Art history, criticism and conservation)
- historic preservation and conservation (See 30.1201-Historic preservation and conservation, general)
- history and language (See 30.4501-History and language/literature)
- history and political science (See 30.4601-History and political science)
- history and theory of architecture (See 04.0801-Architectural history and criticism, general)
- history teacher (See 13.1328-History teacher education)
- medieval studies (See 30.1301-Medieval and renaissance studies)
- military history (See 54.0108-Military history)
- music history (See 50.0902-Music history, literature and theory)
- theatre history (See 50.0505-Theatre literature, history and criticism)

54.0102 American history (United States)

This instructional program class comprises any program that focuses on the development of American society, culture, and institutions from the pre-Columbian period to the present. These programs include courses in American historiography, American history sources and materials, historical research methods, and applications to the study of specific themes, issues, periods, and institutions.

Illustrative example(s)

- American history
- U.S. history
- United States history

Exclusion(s)

- American studies (See 05.0102-American/United States studies/civilization)

54.0103 European history

This instructional program class comprises any program that focuses on the development of European society, culture, and institutions from their origins to the present. These programs include courses in European historiography, European history sources and materials, historical research methods, and applications to the study of specific themes, issues, periods, and institutions.

Illustrative example(s)

- British history
- European cultural history
- European history
- European social history
- French history
- German history
- Irish history
- Russian history

Exclusion(s)

- cultural anthropology (See 45.0204-Cultural anthropology)
- East European studies (See 05.0105-Russian, Central European, East European and Eurasian studies)
- European studies (See 05.0106-European studies/civilization)
- Western European studies (See 05.0114-Western European studies)

54.0104 History and philosophy of science and technology

This instructional program class comprises any program that focuses on the historical evolution of scientific theories, science applications and technologies, and the scientific, medical, and technological disciplines, as well as the philosophy of science and its historical socio-economic context. These programs include courses in the concepts and methods of philosophical inquiry; historiography of science; history of science, medicine, and technology; and research methods in the history of the scientific and engineering disciplines, including mathematics.

Illustrative example(s)

- history and philosophy of science
- history and philosophy of science and technology
- history of science
- philosophy of science and technology
- science history

Exclusion(s)

- history of medicine (See 51.3205-History of medicine)
- medical humanities (See 51.3204-Medical/health humanities)
- metaphysics (See 38.0199-Philosophy, logic and ethics, other)
- science, technology and society (See 30.1501-Science, technology and society)

54.0105 Public/applied history

This instructional program class comprises any program that focuses on the application of history and administrative skills to the recording of public events and the management of related historical resources. These programs include courses in historical research methods, the planning and administration of public history projects, and applications to specific problems in public organizations, government agencies, foundations, and other facilities.

Illustrative example(s)

- applied history
- public history

Exclusion(s)

- archival technician (See 25.0301-Library and archives assisting)
- library and information science (See 25.0101-Library and information science)
- medical records administration (See 51.0706-Health information/medical records administration/administrator)
- medical records technology (See 51.0707-Health information/medical records technology/technician)
- records management (See 25.0103-Archives/archival administration)

54.0106 Asian history

This instructional program class comprises any program that focuses on the development of the societies, cultures, and institutions of the Asian continent from their origins to the present. These programs include courses in the historiography of specific cultures and periods; sources and materials; historical research methods; and applications to the study of specific themes, issues, periods, and institutions.

Illustrative example(s)

- Asian history
- Chinese history
- Korean history

Exclusion(s)

- ancient studies (See 30.2201-Ancient studies/civilization)

- Asian studies (See 05.0103-Asian studies/civilization)

54.0107 Canadian history

This instructional program class comprises any program that focuses on the study of the society, culture, and institutions of Canada from its origins to the present. These programs include courses in Canadian historiography, sources and materials, historical research methods, and applications to the study of specific themes, issues, periods, and institutions.

Illustrative example(s)

- Canadian history
- history of Canada
- history of New France
- history of Quebec and Canada
- Inuit history

Exclusion(s)

- Canadian studies (See 05.0115-Canadian studies)
- military history (See 54.0108-Military history)

54.0108 Military history

This instructional program class comprises any program that focuses on the study of the history of warfare and military institutions in their operational, politico-economic and socio-cultural contexts; including airpower history, naval history, and military history. These programs include courses in military organization, military operations, the history of technology, leadership and biography, military psychology and behaviour, international relations and politics, economics, aspects of general and regional history, cultural history and anthropology, historiography, and applicable quantitative methods.

Illustrative example(s)

- air force history
- army history
- military history
- navy history

Exclusion(s)

- Canadian history (See 54.0107-Canadian history)
- history (See 54.0101-History, general)
- international relations and affairs - History (See 45.0901-International relations and affairs)
- military intelligence (See 29.0501-Military technologies and applied sciences)
- military studies (See 28.0801-Military science, leadership and operational art)
- world history (See 54.0199-History, other)

54.0199 History, other

This instructional program class comprises any program not listed above that relates to History.

Illustrative example(s)

- African history
- ancient history
- family history
- genealogy
- history of the Americas
- medieval history
- Middle East history
- modern history
- other history

- world history

Exclusion(s)

- ancient studies (See 30.2201-Ancient studies/civilization)
- archaeology (See 45.0301-Archaeology)
- genealogy (not for credit) (See 36.0199-Leisure and recreational activities, other (not for credit))
- history of education (See 13.0901-Social and philosophical foundations of education)
- history of religion (See 38.0299-Religion/religious studies, other)
- military history (See 54.0108-Military history)
- music history (See 50.0902-Music history, literature and theory)
- political history (See 30.4601-History and political science)

55. French language and literature/letters^{CAN}

This series comprises instructional programs that focus on the structure and use of the French language and dialects, speech, writing, and various aspects of the literatures and cultures of the French-speaking peoples. Note: Series 55 is for Canadian use only. In the United States, programs that provide instruction in French as a foreign language should be reported under instructional program code 16.0901.

55.01 French language and literature, general^{CAN}

This subseries comprises instructional program class 55.0101.

55.0101 French language and literature, general^{CAN}

This instructional program class comprises any general program that focuses on the French language, including its history, structure and related communications skills; and the literature and culture of French-speaking peoples.

Illustrative example(s)

- French
- French language
- French language and literature
- French language, literature and linguistics
- letters, French

Exclusion(s)

- applied linguistics (See 16.0105-Applied linguistics)
- French as a second language (See 16.1702-French as a second language^{CAN})
- French general literature (See 55.1401-French literature, general^{CAN})
- French studies (See 05.0124-French studies)
- French teacher (See 13.1325-French language/French language arts teacher education)
- linguistics (See 16.0102-Linguistics)
- literature of France and the French community, French (See 55.1404-Literature of France and the French community, French^{CAN})
- Quebec literature (in French) (See 55.1403-Canadian literature, French^{CAN})
- second language learning (not for credit) (See 32.0109-Second language learning (not for credit))
- theatre literature (See 50.0505-Theatre literature, history and criticism)

55.13 French rhetoric and composition/writing studies^{CAN}

This subseries comprises instructional program classes 55.1301 to 55.1399.

55.1301 French writing, general^{CAN}

This instructional program class comprises any program that focuses on writing in French for applied and liberal arts purposes. These programs include courses in writing and document design in multiple genres, modes, and media; writing technologies; research, evaluation, and use of information; editing and publishing; theories and

processes of composing; rhetorical theories, traditions, and analysis; communication across audiences, contexts, and cultures; and practical applications for professional, technical, organizational, academic, and public settings.

Illustrative example(s)

- French composition
- French writing

Exclusion(s)

- advertising copywriting (See 09.0903-Advertising)
- English composition (See 23.1301-English writing, general)
- English creative writing (See 23.1302-English creative writing)
- English technical and professional writing (See 23.1303-English professional, technical, business, and scientific writing)
- French creative writing (See 55.1302-French creative writing^{CAN})
- French rhetoric and writing (See 55.1304-French rhetoric and composition^{CAN})
- French technical and business writing (See 55.1303-French professional, technical, business, and scientific writing^{CAN})
- French writing and literature (See 55.9999-French language and literature/letters, other^{CAN})
- journalism (See 09.0401-Journalism, general)
- literacy and communication skills (not for credit) (See 32.0108-Literacy and communication skills (not for credit))
- script writing (See 50.0504-Playwriting and screenwriting)
- writing (See 36.0118-Writing (not for credit))

55.1302 French creative writing^{CAN}

This instructional program class comprises any program in French language and literature that focuses on the process and techniques of original composition in various literary forms such as the short story, poetry, the novel, and others. These programs include courses in technical and editorial skills, criticism, and the marketing of finished manuscripts.

Illustrative example(s)

- French creative writing

Exclusion(s)

- comedy writing (See 50.0511-Comedy writing and performance)
- English composition (See 23.1301-English writing, general)
- English creative writing (See 23.1302-English creative writing)
- French writing (See 55.1301-French writing, general^{CAN})
- journalism (See 09.0401-Journalism, general)
- script writing (See 50.0504-Playwriting and screenwriting)
- writing (See 36.0118-Writing (not for credit))

55.1303 French professional, technical, business, and scientific writing^{CAN}

This instructional program class comprises any program in French language and literature that focuses on professional, technical, business, and scientific writing; and that prepares individuals for academic positions or for professional careers as writers, editors, researchers, and related careers in business, government, non-profits, and the professions. These programs include courses in theories of rhetoric, writing, and digital literacy; document design, production, and management; visual rhetoric and multimedia composition; documentation development; usability testing; web writing; and publishing in print and electronic media.

Illustrative example(s)

- French business writing
- French professional writing
- French scientific writing

- French technical and business writing
- French technical writing

Exclusion(s)

- business communications (See 52.0501-Business/corporate communications, general)
- English composition (See 23.1301-English writing, general)
- English creative writing (See 23.1302-English creative writing)
- English technical and professional writing (See 23.1303-English professional, technical, business, and scientific writing)
- French creative writing (See 55.1302-French creative writing^{CAN})
- French writing (See 55.1301-French writing, general^{CAN})
- sports communication (See 09.0906-Sports communication)
- technical communication (See 09.0908-Technical and scientific communication)

55.1304 French rhetoric and composition^{CAN}

This instructional program class comprises any program in French language and literature that focuses on the humanistic and scientific study of rhetoric, composition, literacy, and language/linguistic theories and their practical and pedagogical applications. These programs include courses in historical and contemporary rhetoric/composition theories; composition and criticism of written, visual, and mixed-media texts; analysis of literacy practices in cultural and cross-cultural contexts; and writing program administration.

Illustrative example(s)

- French rhetoric
- French rhetoric and composition
- French rhetoric and writing
- French rhetoric and writing studies
- French speech and rhetoric studies

Exclusion(s)

- communication sciences (See 09.0100-Communication, general)
- English speech and rhetorical studies (See 23.1304-English rhetoric and composition)
- French language and literature (See 55.0101-French language and literature, general^{CAN})
- French writing (See 55.1301-French writing, general^{CAN})
- literacy and communication skills (not for credit) (See 32.0108-Literacy and communication skills (not for credit))
- speech communication (See 09.0101-Speech communication and rhetoric)

55.1399 French rhetoric and composition/writing studies, other^{CAN}

This instructional program class comprises any program in French language and literature not listed above that relates to French rhetoric and composition/writing studies.

Illustrative example(s)

- other French rhetoric and composition/writing studies

Exclusion(s)

- advertising copywriting (See 09.0903-Advertising)
- English writing (See 23.1301-English writing, general)
- French creative writing (See 55.1302-French creative writing^{CAN})
- French rhetoric and composition (See 55.1304-French rhetoric and composition^{CAN})
- French technical and business writing (See 55.1303-French professional, technical, business, and scientific writing^{CAN})
- French writing (See 55.1301-French writing, general^{CAN})
- literacy and communication skills (not for credit) (See 32.0108-Literacy and communication skills (not for credit))

- script writing (See 50.0504-Playwriting and screenwriting)

55.14 French literature^{CAN}

This subseries comprises instructional program classes 55.1401 to 55.1499.

55.1401 French literature, general^{CAN}

This instructional program class comprises any program in French language and literature that focuses on literature from one or more genres, cultures or traditions. These programs include courses in period and genre studies, author studies, literary criticism, and studies of various types of literary text.

Illustrative example(s)

- French general literature
- French literary studies
- French literature

Exclusion(s)

- classical literature (See 16.1200-Classics and classical languages, literatures and linguistics, general)
- comparative literature (See 16.0104-Comparative literature)
- English literature (See 23.1401-English literature, general)
- foreign literature (See 16.0101-Indigenous and foreign languages and literatures, general)
- French language and literature (See 55.0101-French language and literature, general^{CAN})
- French literature education (See 13.1325-French language/French language arts teacher education)
- humanities, art and literature (See 24.0103-Humanities/humanistic studies)
- theatre literature (See 50.0505-Theatre literature, history and criticism)

55.1403 Canadian literature, French^{CAN}

This instructional program class comprises any program in French language and literature that focuses on the literature and literary development, both formal and folkloric, of Canada from its origins to the present. These programs include courses in period and genre studies, author studies, literary criticism, and regional and oral traditions.

Illustrative example(s)

- Canadian literature (in French)
- Quebec literature (in French)

Exclusion(s)

- Canadian literature (in English) (See 23.1403-Canadian literature, English)
- French language and literature (See 55.0101-French language and literature, general^{CAN})
- literature of France and the French community, French (See 55.1404-Literature of France and the French community, French^{CAN})

55.1404 Literature of France and the French community, French^{CAN}

This instructional program class comprises any program that focuses on the literatures and literary developments of the French-speaking peoples of France and the French community, from the origins of the French language to the present. These programs include courses in period and genre studies, author studies, country and regional specializations, literary criticism, and the study of folkloric traditions.

Illustrative example(s)

- literature of France
- literature of France and the French community, French
- literature studies of the francophonie (in French)

Exclusion(s)

- Canadian literature (in English) (See 23.1403-Canadian literature, English)
- Canadian literature (in French) (See 55.1403-Canadian literature, French^{CAN})
- comparative literature (See 16.0104-Comparative literature)
- English language and literature (See 23.0101-English language and literature, general)
- French language and literature (See 55.0101-French language and literature, general^{CAN})

55.1405 Children’s and adolescent literature, French^{CAN}

This instructional program class comprises any program in French language and literature that focuses on the scholarly study of children’s and adolescent literature and that may enhance the professional work of teachers, librarians, publishers, booksellers, and creative writers. These programs include courses in period and genre studies, author studies, literary criticism, studies of various types of literary text, book artists, and children’s films.

Illustrative example(s)

- French adolescent literature
- French children’s literature
- French literature for children and young adults

Exclusion(s)

- youth library services (See 25.0102-Children and youth library services)

55.1499 French literature, other^{CAN}

This instructional program class comprises any program in French language and literature not listed above that relates to French literature.

Illustrative example(s)

- other French literature

Exclusion(s)

- classical literature (See 16.1200-Classics and classical languages, literatures and linguistics, general)
- comparative literature (See 16.0104-Comparative literature)
- foreign literature (See 16.0101-Indigenous and foreign languages and literatures, general)
- humanities, art and literature (See 24.0103-Humanities/humanistic studies)
- theatre literature (See 50.0505-Theatre literature, history and criticism)

55.99 French language and literature/letters, other^{CAN}

This subseries comprises instructional program class 55.9999.

55.9999 French language and literature/letters, other^{CAN}

This instructional program class comprises any program in French language and literature not listed above that relates to French language and literature/letters.

Illustrative example(s)

- French writing and literature
- other French language and literature/letters

Exclusion(s)

- French writing (See 55.1301-French writing, general^{CAN})

60. Health professions residency/fellowship programs

This series comprises residency and fellowship programs that prepare dentists (DDS, DMD), nurse practitioners, pharmacists (PharmD), physician assistants, and veterinarians (DVM) for certification as practitioners of recognized specialties in their respective professions. These programs are approved and accredited by designated professional associations. Residency or fellowship programs that also result in the completion of an academic degree (e.g., MS, MSc, PhD), should be reported under the appropriate CIP code, rather than in a residency code located in Series 60.

60.01 Dental residency/fellowship programs

This subseries comprises instructional program classes 60.0101 to 60.0199.

60.0101 Oral and maxillofacial surgery residency programs

This instructional program class comprises any residency training program that prepares dentists in the diagnosis, and surgical and related treatment, of diseases, injuries, and defects involving both the functional and esthetic aspects of the hard and soft tissues of the head, mouth, teeth, gums, jaws, and neck. These programs include instruction in treatment of problem wisdom teeth, facial pain, misaligned jaws, and reconstructive and dental implant surgery. Note: this specialty was previously titled Dental/oral surgery.

Illustrative example(s)

- dental surgery - residency
- dental/oral surgery specialty - residency
- maxillofacial surgery - residency
- oral and maxillofacial surgery - residency
- oral surgery - residency

Exclusion(s)

- advanced general dentistry (See 51.0502-Advanced general dentistry (Cert., MS, MSc, PhD))
- dentist (See 51.0401-Dentistry (DDS, DMD))
- oral and maxillofacial radiology - residency (See 60.0109-Oral and maxillofacial radiology residency programs)
- oral and maxillofacial surgery (Cert., MS, MSc, PhD) (See 51.0507-Oral/maxillofacial surgery (Cert., MS, MSc, PhD))

60.0102 Dental public health residency programs

This instructional program class comprises any residency training program that prepares dentists in the formulation and delivery of public preventive and curative dental health services.

Illustrative example(s)

- dental public health - residency
- dental public health specialty - residency

Exclusion(s)

- dental public health and education (Cert., MS, MSc, MPH, PhD, DPH) (See 51.0504-Dental public health and education (Cert., MS, MSc, MPH, PhD, DPH))

60.0103 Endodontics residency programs

This instructional program class comprises any residency training program that prepares dentists in the etiology, diagnosis, prevention, and treatment of conditions that affect the dental and other periodontal tissues, including pulp canal therapy and root canal therapy.

Illustrative example(s)

- endodontics - residency
- endodontics specialty - residency

Exclusion(s)

- endodontics (Cert., MS, MSc, PhD) (See 51.0506-Endodontics/endodontology (Cert., MS, MSc, PhD))

60.0104 Oral and maxillofacial pathology residency programs

This instructional program class comprises any residency training program that prepares dentists in the diagnosis and management of diseases affecting the oral and maxillofacial regions, using clinical, radiographic, microscopic, biochemical, or other examinations.

Illustrative example(s)

- oral and maxillofacial pathology - residency
- oral pathology specialty - residency

Exclusion(s)

- oral and maxillofacial radiology - residency (See 60.0109-Oral and maxillofacial radiology residency programs)

60.0105 Orthodontics residency programs

This instructional program class comprises any residency training program that prepares dentists in the principles and techniques involved in the prevention and correction of dental malocclusions and oral cavity anomalies.

Illustrative example(s)

- orthodontics - residency
- orthodontics specialty - residency

Exclusion(s)

- orthodontics (Cert., MS, MSc, PhD) (See 51.0508-Orthodontics/orthodontology (Cert., MS, MSc, PhD))

60.0106 Pediatric dentistry residency programs

This instructional program class comprises any residency training program that prepares dentists to provide primary oral health care to infants, children, and adolescents, including patients with medical, physical or mental disabilities, and to treat a wide variety of dental problems for these patients. Note: this specialty was previously titled Pedodontics.

Illustrative example(s)

- pediatric dentistry - residency
- pedodontics specialty - residency

Exclusion(s)

- pedodontics (Cert., MS, MSc, PhD) (See 51.0509-Pediatric dentistry/pedodontics (Cert., MS, MSc, PhD))

60.0107 Periodontology residency programs

This instructional program class comprises any residency training program that prepares dentists in the prevention, diagnosis, and treatment of diseases affecting the gums and supporting structures of the teeth, and in the placement and maintenance of dental implants.

Illustrative example(s)

- periodontics specialty - residency
- periodontology - residency

Exclusion(s)

- periodontics (Cert., MS, MSc, PhD) (See 51.0510-Periodontics/periodontology (Cert., MS, MSc, PhD))

60.0108 Prosthodontics residency programs

This instructional program class comprises any residency training program that prepares dentists in the principles and techniques of constructing oral prostheses, and the restoration and maintenance of oral function by the replacement of missing teeth and other oral structures with such artificial devices.

Illustrative example(s)

- prosthodontics - residency
- prosthodontics specialty - residency

Exclusion(s)

- prosthodontology (Cert., MS, MSc, PhD) (See 51.0511-Prosthodontics/prosthodontology (Cert., MS, MSc, PhD))

60.0109 Oral and maxillofacial radiology residency programs

This instructional program class comprises any residency training program that prepares dentists to produce and interpret images of the jaws, teeth, bone, and other structures of the head and neck region; and to diagnose and manage diseases, disorders, and conditions that affect this area of the body.

Illustrative example(s)

- oral and maxillofacial radiology - residency

Exclusion(s)

- dental sciences (MS, MSc, PhD) (See 51.0501-Dental clinical sciences, general (MS, MSc, PhD))
- dentist (See 51.0401-Dentistry (DDS, DMD))
- diagnostic radiology - residency (See 61.2601-Diagnostic radiology residency programs)
- oral and maxillofacial pathology - residency (See 60.0104-Oral and maxillofacial pathology residency programs)
- oral and maxillofacial pathology (MS, MSc, PhD) (See 51.0503-Oral biology and oral and maxillofacial pathology (MS, MSc, PhD))
- oral and maxillofacial surgery - residency (See 60.0101-Oral and maxillofacial surgery residency programs)
- oral and maxillofacial surgery (Cert., MS, MSc, PhD) (See 51.0507-Oral/maxillofacial surgery (Cert., MS, MSc, PhD))

60.0110 Implantology fellowship programs

This instructional program class comprises any fellowship training program that prepares dentists in the surgical and restorative aspects of implant dentistry.

Illustrative example(s)

- implantology - fellowship

60.0199 Dental residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Dental residency/fellowship programs.

Illustrative example(s)

- other dental fellowship programs
- other dental residency programs

Exclusion(s)

- advanced general dentistry (See 51.0502-Advanced general dentistry (Cert., MS, MSc, PhD))

60.03 Veterinary residency/fellowship programs

This subseries comprises instructional program classes 60.0301 to 60.0399.

60.0301 Veterinary anesthesiology residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the application of anesthesia for general and specialized surgery and obstetrics, critical animal care and the care of pain problems. These programs include instruction in surgical procedures, current monitoring procedures, fluid therapy, pain management, diagnostic and therapeutic procedures outside the operating room, and operating room safety.

Illustrative example(s)

- veterinary anesthesiology - residency

60.0302 Veterinary dentistry residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the application of dental care procedures to the teeth, eating surfaces, and oral cavities of animals. These programs include instruction in the prevention, diagnosis, and treatment of diseases and abnormalities of animal teeth and gums and related parts of the oral cavity; and related anatomical and physiological principles.

Illustrative example(s)

- veterinary dentistry - residency

60.0303 Veterinary dermatology residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the delivery of specialized care to animals with diseases of the skin, scales, feathers, hair, nails and mucous membranes. These programs include instruction in dermatologic surgical procedures, cutaneous allergies, and diagnostic and therapeutic techniques.

Illustrative example(s)

- veterinary dermatology - residency

Exclusion(s)

- pediatric dermatology - fellowship (See 61.0503-Pediatric dermatology fellowship programs)

60.0304 Veterinary emergency and critical care medicine residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the emergency treatment and management of care for animals with acutely life-threatening conditions which may include multiple organ failure. These programs include instruction in the management of critical care units, emergency procedures, and long-term care of critically diseased animals.

Illustrative example(s)

- veterinary emergency and critical care medicine - residency

Exclusion(s)

- pediatric critical care medicine - fellowship (See 61.1907-Pediatric critical care medicine fellowship programs)
- pediatric emergency medicine - fellowship (See 61.1908-Pediatric emergency medicine fellowship programs)

60.0305 Veterinary internal medicine residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the provision of general medical services to animals with a wide range of non-surgical clinical problems. These

programs include instruction in behavioural aspects of diseases, animal diagnosis, animal aging, and referral procedures.

Illustrative example(s)

- veterinary internal medicine - residency

60.0306 Laboratory animal medicine residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the principles and practices of applied veterinary research and related techniques, equipment, data systems and research design. These programs include instruction in the management of veterinary and other animal research laboratories and health care facilities.

Illustrative example(s)

- laboratory animal medicine - residency

Exclusion(s)

- comparative and laboratory animal medicine (Cert., MS, MSc, PhD) (See 01.8102-Comparative and laboratory animal medicine (Cert., MS, MSc, PhD))

60.0307 Veterinary microbiology residency programs

This instructional program class comprises any residency training program that prepares veterinarians in clinical applications of research on harmful microorganisms, including viruses, and of the disease processes they induce in animals.

Illustrative example(s)

- veterinary microbiology - residency

Exclusion(s)

- medical microbiology - fellowship (See 61.1811-Medical microbiology fellowship programs)
- veterinary microbiology and immunobiology (Cert., MS, MSc, PhD) (See 01.8107-Veterinary microbiology and immunobiology (Cert., MS, MSc, PhD))

60.0308 Veterinary nutrition residency programs

This instructional program class comprises any residency training program that prepares veterinarians to apply research on the chemical nature of food substances; the processes by which animals ingest, digest, absorb, transport, utilize and excrete food and nutrients; and their relation to animal behaviour and health.

Illustrative example(s)

- veterinary nutrition - residency

Exclusion(s)

- animal nutrition (See 01.0904-Animal nutrition)

60.0309 Veterinary ophthalmology residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the diagnosis, prevention, and treatment of ophthalmic diseases and disorders in animals, and related ocular pathology procedures. These programs include instruction in animal eye surgery.

Illustrative example(s)

- veterinary ophthalmology - residency

60.0310 Veterinary pathology residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the clinical laboratory analysis and diagnosis of diseased animal tissues and anatomic abnormalities. These programs include instruction in performing general autopsies, forensic medicine, laboratory management and quality control.

Illustrative example(s)

- veterinary pathology - residency

Exclusion(s)

- veterinary pathology and pathobiology (Cert., MS, MSc, PhD) (See 01.8108-Veterinary pathology and pathobiology (Cert., MS, MSc, PhD))

60.0311 Veterinary practice residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the provision of regular and long-term care to animals, health services to owners, and the management of independent veterinary practices. These programs include instruction in comprehensive care and specialist referral, basic surgery, emergency medical procedures, and diagnostic imaging.

Illustrative example(s)

- veterinary practice - residency

Exclusion(s)

- veterinary medicine (DVM) (See 01.8001-Veterinary medicine (DVM))
- veterinary sciences (Cert., MS, MSc, PhD) (See 01.8101-Veterinary sciences/veterinary clinical sciences, general (Cert., MS, MSc, PhD))

60.0312 Veterinary preventive medicine residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the investigation of and intervention in health and disease problems of animal and related human communities; comparative medicine; and animal public health. These programs include instruction in biostatistics, epidemiology, environmental control, toxicology and the planning and administration of animal health programs and services.

Illustrative example(s)

- veterinary preventive medicine - residency

Exclusion(s)

- veterinary epidemiology (See 01.8110-Veterinary preventive medicine, epidemiology and public health (Cert., MS, MSc, PhD))

60.0313 Veterinary radiology residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the use of radiologic imaging and therapies to diagnose and treat animal diseases and health problems. These programs include instruction in the use and handling of equipment for radionuclides detection and application.

Illustrative example(s)

- veterinary radiology - residency

Exclusion(s)

- pediatric radiology - fellowship (See 61.2609-Pediatric radiology fellowship programs)

60.0314 Veterinary surgery residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the care and treatment of animal diseases and disorders via invasive procedures and the etiology, pathogenesis, diagnosis and management of physical disorders. These programs include instruction in clinical and operative skills, pre-operative and postoperative care, trauma management, endoscopic techniques, and applications to large and small animal medicine.

Illustrative example(s)

- veterinary surgery - residency

Exclusion(s)

- herd medicine and theriogenology (Cert., MS, MSc, PhD) (See 01.8103-Large animal/food animal and equine surgery and medicine (Cert., MS, MSc, PhD))
- small/companion animal surgery and medicine (Cert., MS, MSc, PhD) (See 01.8104-Small/companion animal surgery and medicine (Cert., MS, MSc, PhD))

60.0315 Theriogenology residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the diagnosis, prevention and treatment of diseases and health problems affecting the reproductive systems of animals, and the comprehensive care and treatment of parent animals, animal fetuses and newborn or newly hatched animals throughout the gestation period.

Illustrative example(s)

- theriogenology - residency

60.0316 Veterinary toxicology residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the clinical application of research on the nature and extent of adverse effects of synthetic and naturally occurring chemical substances on animals. These programs include instruction in chemical mechanisms and the specialties of reproductive, developmental, genetic, forensic, inhalation and neurobehavioural toxicology.

Illustrative example(s)

- veterinary toxicology - residency

Exclusion(s)

- medical toxicology - fellowship (See 61.0208-Medical toxicology fellowship programs)
- veterinary toxicology and pharmacology (Cert., MS, MSc, PhD) (See 01.8111-Veterinary toxicology and pharmacology (Cert., MS, MSc, PhD))

60.0317 Zoological medicine residency programs

This instructional program class comprises any residency training program that prepares veterinarians in the specialized treatment and care of zoo animals, performing animals, and animals living in the wild. These programs include instruction in the principles and procedures used in the observation, diagnosis, care and treatment of illness, disease, injury, deformity, or other anomalies in non-domesticated animals.

Illustrative example(s)

- zoological medicine - residency

60.0318 Poultry veterinarian residency programs

This instructional program class comprises any residency training program that prepares veterinarians to work in the commercial poultry industry, providing services and technical support pertaining to prevention, diagnosis, and management of disease; epidemiology; genetics; and nutrition.

Illustrative example(s)

- poultry veterinarian - residency

Exclusion(s)

- poultry science (See 01.0907-Poultry science)

60.0319 Veterinary behaviourist residency programs

This instructional program class comprises any residency training program that prepares veterinarians to understand and treat the behavioural problems of animals, primarily through the application of behaviour modification techniques to companion animals; may also involve diagnosis of medical conditions that can affect a pet's behaviour, and the use of medication in conjunction with behaviour modification therapy.

Illustrative example(s)

- veterinary behaviourist - residency

Exclusion(s)

- animal behaviour (See 26.0708-Animal behaviour and ethology)
- behavioural science (See 30.1701-Behavioural sciences)

60.0320 Veterinary clinical pharmacology residency programs

This instructional program class comprises any residency training program that prepares veterinarians to apply advanced knowledge of the chemical properties and biological effects of drugs to rational drug therapy in animal patients. These programs include instruction in the comparative pharmacology of principal drug groups, pharmacokinetics, basic mechanisms and features of diseases occurring in domesticated animals, the role of drugs in modifying the disease process, and specific skills critical to the practice of clinical pharmacology.

Illustrative example(s)

- veterinary clinical pharmacology - residency

Exclusion(s)

- pharmacology (See 26.1001-Pharmacology)
- veterinary toxicology and pharmacology (Cert., MS, MSc, PhD) (See 01.8111-Veterinary toxicology and pharmacology (Cert., MS, MSc, PhD))

60.0399 Veterinary residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Veterinary residency/fellowship programs.

Illustrative example(s)

- other veterinary fellowship programs
- other veterinary residency programs

60.07 Nurse practitioner residency/fellowship programs

This subseries comprises instructional program classes 60.0701 to 60.0799.

60.0701 Nurse practitioner residency/fellowship programs, general

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in nursing.

Illustrative example(s)

- general nurse practitioner - fellowship
- general nurse practitioner - residency

- nurse practitioner
- nurse practitioner - fellowship
- nurse practitioner - residency

Exclusion(s)

- primary health care nurse (See 51.3805-Primary health care nurse/nursing and family practice nurse/nursing)

60.0702 Combined nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in two or more nursing specialties.

Illustrative example(s)

- combined nurse practitioner fellowship programs
- combined nurse practitioner residency programs

60.0703 Acute care nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in acute care medicine.

Illustrative example(s)

- acute care nurse practitioner
- acute care nurse practitioner - fellowship
- acute care nurse practitioner - residency
- critical care nurse practitioner
- critical care nurse practitioner - fellowship
- critical care nurse practitioner - residency
- intensive care nurse practitioner
- intensive care nurse practitioner - fellowship
- intensive care nurse practitioner - residency

Exclusion(s)

- acute care nurse (See 51.3814-Critical care nurse/nursing)

60.0704 Adult/gerontology acute care nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in adult/gerontology acute care medicine.

Illustrative example(s)

- adult acute care nurse practitioner - fellowship
- adult acute care nurse practitioner - residency
- adult health nurse practitioner
- adult nurse practitioner
- adult/gerontology acute care nurse practitioner - fellowship
- adult/gerontology acute care nurse practitioner - residency
- gerontology acute care nurse practitioner - fellowship
- gerontology acute care nurse practitioner - residency

Exclusion(s)

- adult health nurse (See 51.3803-Adult health nurse/nursing)

60.0705 Adult/gerontology critical care nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in adult/gerontology critical care medicine.

Illustrative example(s)

- adult critical care nurse practitioner - fellowship
- adult critical care nurse practitioner - residency
- adult/gerontology critical care nurse practitioner - fellowship
- adult/gerontology critical care nurse practitioner - residency
- gerontology critical care nurse practitioner - fellowship
- gerontology critical care nurse practitioner - residency

60.0706 Cardiology/cardiovascular nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in cardiology and cardiovascular medicine.

Illustrative example(s)

- cardiology nurse practitioner
- cardiology nurse practitioner - fellowship
- cardiology nurse practitioner - residency
- cardiology/cardiovascular nurse practitioner - fellowship
- cardiology/cardiovascular nurse practitioner - residency
- cardiovascular nurse practitioner - fellowship
- cardiovascular nurse practitioner - residency

60.0707 Clinical informatics nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in clinical informatics.

Illustrative example(s)

- clinical informatics nurse practitioner - fellowship
- clinical informatics nurse practitioner - residency

60.0708 Dermatology nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in dermatology.

Illustrative example(s)

- dermatology nurse practitioner - fellowship
- dermatology nurse practitioner - residency

60.0709 Developmental and behavioural pediatrics nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in developmental and behavioural pediatrics.

Illustrative example(s)

- developmental and behavioural pediatrics nurse practitioner - fellowship
- developmental and behavioural pediatrics nurse practitioner - residency

60.0710 Diabetes nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in diabetology and metabolic disorders.

Illustrative example(s)

- diabetes nurse practitioner - fellowship
- diabetes nurse practitioner - residency

60.0711 Emergency medicine nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in emergency medicine.

Illustrative example(s)

- emergency medicine nurse practitioner - fellowship
- emergency medicine nurse practitioner - residency
- emergency nurse practitioner

Exclusion(s)

- emergency nurse (See 51.3816-Emergency room/trauma nurse/nursing)

60.0712 Endocrinology nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in endocrinology.

Illustrative example(s)

- endocrinology nurse practitioner - fellowship
- endocrinology nurse practitioner - residency

60.0713 Family medicine nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in family medicine.

Illustrative example(s)

- family medicine nurse practitioner - fellowship
- family medicine nurse practitioner - residency
- family nurse practitioner
- family nurse practitioner - fellowship
- family nurse practitioner - residency
- PHCNP
- primary care nurse practitioner
- primary care nurse practitioner - fellowship
- primary care nurse practitioner - residency
- primary health care nurse practitioner

Exclusion(s)

- family practice nurse (See 51.3805-Primary health care nurse/nursing and family practice nurse/nursing)

60.0714 Gastroenterology and hepatology nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in gastroenterology and hepatology.

Illustrative example(s)

- gastroenterology and hepatology nurse practitioner - fellowship
- gastroenterology and hepatology nurse practitioner - residency

60.0715 Gastroenterology nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in gastroenterology.

Illustrative example(s)

- gastroenterology nurse practitioner - fellowship
- gastroenterology nurse practitioner - residency

60.0716 Genetics nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in genetic counselling and disorders.

Illustrative example(s)

- genetics nurse practitioner - fellowship
- genetics nurse practitioner - residency

60.0717 Gerontology nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in gerontology.

Illustrative example(s)

- geriatric nurse practitioner
- gerontological nurse practitioner
- gerontology nurse practitioner - fellowship
- gerontology nurse practitioner - residency

Exclusion(s)

- gerontological nurse (See 51.3821-Geriatric nurse/nursing)

60.0718 Global health nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in global health.

Illustrative example(s)

- global health nurse practitioner - fellowship
- global health nurse practitioner - residency

60.0719 Hematology-oncology nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in hematology and oncology.

Illustrative example(s)

- hematology-oncology nurse practitioner - fellowship
- hematology-oncology nurse practitioner - residency

60.0720 Hepatology nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in hepatology.

Illustrative example(s)

- hepatology nurse practitioner - fellowship
- hepatology nurse practitioner - residency

60.0721 Home-based primary care nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in home-based primary care.

Illustrative example(s)

- home-based primary care nurse practitioner - fellowship
- home-based primary care nurse practitioner - residency

60.0722 Hospice and palliative medicine nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in hospice and palliative medicine.

Illustrative example(s)

- hospice and palliative medicine nurse practitioner - fellowship
- hospice and palliative medicine nurse practitioner - residency

Exclusion(s)

- hospice and palliative care (See 51.1512-Hospice and palliative care)

60.0723 Hospital medicine nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in hospital medicine.

Illustrative example(s)

- hospital medicine nurse practitioner - fellowship
- hospital medicine nurse practitioner - residency

60.0724 Infectious diseases nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in infectious diseases.

Illustrative example(s)

- infectious diseases nurse practitioner - fellowship
- infectious diseases nurse practitioner - residency

60.0725 Neonatal nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in neonatology.

Illustrative example(s)

- maternity nurse practitioner
- neonatal nurse practitioner
- neonatal nurse practitioner - fellowship
- neonatal nurse practitioner - residency

Exclusion(s)

- neonatal nurse (See 51.3806-Maternal/child health and neonatal nurse/nursing)

60.0726 Nephrology nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in nephrology.

Illustrative example(s)

- nephrology nurse practitioner
- nephrology nurse practitioner - fellowship
- nephrology nurse practitioner - residency

Exclusion(s)

- nephrology nursing (See 51.3899-Registered nursing, nursing administration, nursing research and clinical nursing, other)

60.0727 Neurology nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in neurology.

Illustrative example(s)

- neurology nurse practitioner - fellowship
- neurology nurse practitioner - residency

60.0728 Neuroscience nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in neuroscience.

Illustrative example(s)

- neuroscience nurse practitioner - fellowship
- neuroscience nurse practitioner - residency

60.0729 Obstetrics and gynecology nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in obstetrics and gynecology.

Illustrative example(s)

- obstetrics and gynecology nurse practitioner - fellowship
- obstetrics and gynecology nurse practitioner - residency

60.0730 Occupational health nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in occupational health.

Illustrative example(s)

- occupational health nurse practitioner
- occupational health nurse practitioner - fellowship
- occupational health nurse practitioner - residency

Exclusion(s)

- occupational health nurse (See 51.3815-Occupational and environmental health nurse/nursing)

60.0731 Orthopedic nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in orthopedics.

Illustrative example(s)

- orthopedic nurse practitioner - fellowship
- orthopedic nurse practitioner - residency

60.0732 Orthopedic surgery nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in orthopedic surgery.

Illustrative example(s)

- orthopedic surgery nurse practitioner - fellowship
- orthopedic surgery nurse practitioner - residency

60.0733 Pain management nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in pain management.

Illustrative example(s)

- pain management nurse practitioner - fellowship
- pain management nurse practitioner - residency

Exclusion(s)

- pain management (college) (See 51.3899-Registered nursing, nursing administration, nursing research and clinical nursing, other)
- pain management (university) (See 51.1403-Pain management (Cert., MS, MSc, PhD))
- pain medicine - fellowship (See 61.0210-Pain medicine fellowship programs)

60.0734 Palliative care nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in palliative care.

Illustrative example(s)

- palliative care nurse practitioner
- palliative care nurse practitioner - fellowship
- palliative care nurse practitioner - residency

Exclusion(s)

- palliative care nurse (See 51.3819-Palliative care nurse/nursing)

60.0735 Pediatric hematology-oncology nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in pediatric hematology and oncology.

Illustrative example(s)

- pediatric hematology-oncology nurse practitioner - fellowship
- pediatric hematology-oncology nurse practitioner - residency

60.0736 Pediatric nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in pediatrics.

Illustrative example(s)

- pediatric nurse practitioner

- pediatric nurse practitioner - fellowship
- pediatric nurse practitioner - residency
- pediatric nursing practitioner

Exclusion(s)

- pediatric nurse (See 51.3809-Pediatric nurse/nursing)

60.0737 Pediatric rehabilitation nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in pediatric rehabilitation.

Illustrative example(s)

- pediatric rehabilitation nurse practitioner - fellowship
- pediatric rehabilitation nurse practitioner - residency

60.0738 Psychiatric/mental health nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in psychiatric and mental health.

Illustrative example(s)

- mental health nurse practitioner
- mental health nurse practitioner - fellowship
- mental health nurse practitioner - residency
- psychiatric nurse practitioner
- psychiatric nurse practitioner - fellowship
- psychiatric nurse practitioner - residency
- psychiatric/mental health nurse practitioner - fellowship
- psychiatric/mental health nurse practitioner - residency

Exclusion(s)

- psychiatric nurse (See 51.3810-Psychiatric/mental health nurse/nursing)

60.0739 Public health/community health nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in public or community health.

Illustrative example(s)

- community health nurse practitioner - fellowship
- community health nurse practitioner - residency
- public health nurse practitioner - fellowship
- public health nurse practitioner - residency
- public health/community health nurse practitioner - fellowship
- public health/community health nurse practitioner - residency

60.0740 Pulmonary nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in pulmonology.

Illustrative example(s)

- pulmonary care nurse practitioner - fellowship
- pulmonary care nurse practitioner - residency
- pulmonary nurse practitioner - fellowship
- pulmonary nurse practitioner - residency

- respiratory health nurse practitioner - residency
- respiratory nurse practitioner - residency

Exclusion(s)

- respiratory health nurse (See 51.3899-Registered nursing, nursing administration, nursing research and clinical nursing, other)

60.0741 Rheumatology nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in rheumatology.

Illustrative example(s)

- rheumatology nurse practitioner - fellowship
- rheumatology nurse practitioner - residency

60.0742 Rural health nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in rural health.

Illustrative example(s)

- rural health nurse practitioner - fellowship
- rural health nurse practitioner - residency

60.0743 Sleep medicine nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in sleep medicine.

Illustrative example(s)

- sleep medicine nurse practitioner - fellowship
- sleep medicine nurse practitioner - residency

60.0744 Surgical and critical care nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in surgical and critical care medicine.

Illustrative example(s)

- surgical and critical care nurse practitioner - fellowship
- surgical and critical care nurse practitioner - residency

60.0745 Surgical wound and reconstruction nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in surgical wound care and reconstruction.

Illustrative example(s)

- surgical wound and reconstruction nurse practitioner - fellowship
- surgical wound and reconstruction nurse practitioner - residency

60.0746 Transplantation nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in transplantology.

Illustrative example(s)

- transplantation nurse practitioner - fellowship
- transplantation nurse practitioner - residency

60.0747 Trauma and critical care nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in trauma and critical care medicine.

Illustrative example(s)

- trauma and critical care nurse practitioner - fellowship
- trauma and critical care nurse practitioner - residency

60.0748 Urgent care nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in urgent care medicine.

Illustrative example(s)

- urgent care nurse practitioner - fellowship
- urgent care nurse practitioner - residency

60.0749 Urology nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in urology.

Illustrative example(s)

- urology nurse practitioner - fellowship
- urology nurse practitioner - residency

60.0750 Women's health nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in women's health.

Illustrative example(s)

- women's health nurse practitioner
- women's health nurse practitioner - fellowship
- women's health nurse practitioner - residency

Exclusion(s)

- women's health nurse (See 51.3822-Women's health nurse/nursing)

60.0751 Wound care nurse practitioner residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed nurse practitioners that provides advanced didactic and clinical training in wound care.

Illustrative example(s)

- wound care nurse practitioner - fellowship
- wound care nurse practitioner - residency

60.0799 Nurse practitioner residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Nurse practitioner residency/fellowship programs.

Illustrative example(s)

- anaesthesia nurse practitioner
- anesthesia nurse practitioner
- oncology nurse practitioner
- other nurse practitioner fellowship programs
- other nurse practitioner residency programs

Exclusion(s)

- nurse anesthetist (See 51.3804-Nurse anesthetist)
- oncology nursing (See 51.3899-Registered nursing, nursing administration, nursing research and clinical nursing, other)

60.08 Pharmacy residency/fellowship programs

This subseries comprises instructional program classes 60.0801 to 60.0899.

60.0801 Pharmacy residency/fellowship programs, general

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in pharmacy.

Illustrative example(s)

- general pharmacy - fellowship
- general pharmacy - residency
- pharmacy - fellowship
- pharmacy - residency

60.0802 Combined pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in two or more pharmacy specialties.

Illustrative example(s)

- combined pharmacy - fellowship
- combined pharmacy - residency

60.0803 Ambulatory care pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in ambulatory care pharmacy.

Illustrative example(s)

- ambulatory care pharmacy - fellowship
- ambulatory care pharmacy - residency

60.0804 Cardiology pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in cardiology pharmacy.

Illustrative example(s)

- cardiology pharmacy - fellowship
- cardiology pharmacy - residency

60.0805 Clinical pharmacogenomics pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in clinical pharmacogenomics.

Illustrative example(s)

- clinical pharmacogenomics pharmacy - fellowship
- clinical pharmacogenomics pharmacy - residency

60.0806 Community/community-based pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in community or community-based pharmacy.

Illustrative example(s)

- community pharmacy - fellowship
- community pharmacy - residency
- community-based pharmacy - fellowship
- community-based pharmacy - residency
- community/community-based pharmacy - fellowship
- community/community-based pharmacy - residency

60.0807 Corporate pharmacy leadership residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in corporate pharmacy leadership.

Illustrative example(s)

- corporate pharmacy leadership - fellowship
- corporate pharmacy leadership - residency

60.0808 Critical care pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in critical care pharmacy.

Illustrative example(s)

- critical care pharmacy - fellowship
- critical care pharmacy - residency

60.0809 Drug information pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in drug information.

Illustrative example(s)

- drug information pharmacy - fellowship
- drug information pharmacy - residency

60.0810 Emergency medicine pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in emergency medicine pharmacy.

Illustrative example(s)

- emergency medicine pharmacy - fellowship
- emergency medicine pharmacy - residency

60.0811 Family medicine pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in family medicine pharmacy.

Illustrative example(s)

- family medicine pharmacy - fellowship
- family medicine pharmacy - residency

60.0812 Geriatric pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in geriatric pharmacy.

Illustrative example(s)

- geriatric pharmacy - fellowship
- geriatric pharmacy - residency

60.0813 Health system medication management pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in health system medication management.

Illustrative example(s)

- health system medication management pharmacy - fellowship
- health system medication management pharmacy - residency
- health system pharmacy - fellowship
- health system pharmacy - residency
- hospital pharmacy - fellowship
- hospital pharmacy - residency

60.0814 Health system pharmacy administration and leadership residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in health system pharmacy administration and leadership.

Illustrative example(s)

- health system pharmacy administration and leadership - fellowship
- health system pharmacy administration and leadership - residency
- hospital pharmacy administration and leadership - fellowship
- hospital pharmacy administration and leadership - residency

60.0815 Infectious diseases pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in infectious diseases pharmacy.

Illustrative example(s)

- infectious diseases pharmacy - fellowship
- infectious diseases pharmacy - residency

60.0816 Internal medicine pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in internal medicine pharmacy.

Illustrative example(s)

- internal medicine pharmacy - fellowship
- internal medicine pharmacy - residency

60.0817 Investigational drugs and research pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in investigational drugs and research.

Illustrative example(s)

- investigational drugs and research pharmacy - fellowship
- investigational drugs and research pharmacy - residency

60.0818 Managed care pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in managed care pharmacy.

Illustrative example(s)

- managed care pharmacy - fellowship
- managed care pharmacy - residency

60.0819 Medication systems and operations pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in medication systems and operations.

Illustrative example(s)

- medication systems and operations pharmacy - fellowship
- medication systems and operations pharmacy - residency

60.0820 Medication-use safety pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in medication-use safety.

Illustrative example(s)

- medication-use safety pharmacy - fellowship
- medication-use safety pharmacy - residency

60.0821 Neonatal pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in neonatal pharmacy.

Illustrative example(s)

- neonatal pharmacy - fellowship
- neonatal pharmacy - residency

60.0822 Nephrology pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in nephrology pharmacy.

Illustrative example(s)

- nephrology pharmacy - fellowship
- nephrology pharmacy - residency

60.0823 Neurology pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in neurology pharmacy.

Illustrative example(s)

- neurology pharmacy - fellowship
- neurology pharmacy - residency

60.0824 Nuclear pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in nuclear pharmacy.

Illustrative example(s)

- nuclear pharmacy - fellowship
- nuclear pharmacy - residency

60.0825 Nutrition support pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in nutrition support.

Illustrative example(s)

- nutrition support pharmacy - fellowship
- nutrition support pharmacy - residency

60.0826 Oncology pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in oncology pharmacy.

Illustrative example(s)

- oncology pharmacy - fellowship
- oncology pharmacy - residency

60.0827 Palliative care/pain management pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in palliative care and pain management.

Illustrative example(s)

- pain management pharmacy - fellowship
- pain management pharmacy - residency
- palliative care pharmacy - fellowship
- palliative care pharmacy - residency
- palliative care/pain management pharmacy - fellowship
- palliative care/pain management pharmacy - residency

60.0828 Pediatric pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in pediatric pharmacy.

Illustrative example(s)

- pediatric pharmacy - fellowship
- pediatric pharmacy - residency

60.0829 Pharmacotherapy pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in pharmacotherapy.

Illustrative example(s)

- pharmacotherapy pharmacy - fellowship
- pharmacotherapy pharmacy - residency

60.0830 Pharmacy informatics pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in pharmacy informatics.

Illustrative example(s)

- pharmacy informatics pharmacy - fellowship
- pharmacy informatics pharmacy - residency

60.0831 Psychiatric pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in psychiatric pharmacy.

Illustrative example(s)

- psychiatric pharmacy - fellowship
- psychiatric pharmacy - residency

60.0832 Transplantation pharmacy residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed pharmacists that provides advanced training in transplantation pharmacy.

Illustrative example(s)

- transplantation pharmacy - fellowship
- transplantation pharmacy - residency

60.0899 Pharmacy residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Pharmacy residency programs.

Illustrative example(s)

- other pharmacy fellowship programs
- other pharmacy residency programs

60.09 Physician assistant residency/fellowship programs

This subseries comprises instructional program classes 60.0901 to 60.0999.

60.0901 Physician assistant residency/fellowship programs, general

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in medicine.

Illustrative example(s)

- general physician assistant - fellowship
- general physician assistant - residency
- general physician associate - fellowship
- general physician associate - residency
- physician assistant - fellowship
- physician assistant - residency
- physician associate - fellowship
- physician associate - residency

60.0902 Combined physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in two or more medical or surgical specialties.

Illustrative example(s)

- combined physician assistant fellowship program
- combined physician assistant residency program
- combined physician associate fellowship program
- combined physician associate residency program

60.0903 Acute care medicine physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in acute care medicine.

Illustrative example(s)

- acute care medicine physician assistant - fellowship
- acute care medicine physician assistant - residency
- acute care medicine physician associate - fellowship
- acute care medicine physician associate - residency

60.0904 Acute care surgery physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in acute care surgery.

Illustrative example(s)

- acute care surgery physician assistant - fellowship
- acute care surgery physician assistant - residency
- acute care surgery physician associate - fellowship
- acute care surgery physician associate - residency

60.0905 Cardiology physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in cardiology.

Illustrative example(s)

- cardiology physician assistant - fellowship
- cardiology physician assistant - residency
- cardiology physician associate - fellowship
- cardiology physician associate - residency

60.0906 Cardiothoracic surgery physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in cardiothoracic surgery.

Illustrative example(s)

- cardiothoracic surgery physician assistant - fellowship
- cardiothoracic surgery physician assistant - residency
- cardiothoracic surgery physician associate - fellowship
- cardiothoracic surgery physician associate - residency

60.0907 Critical care physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in critical care medicine.

Illustrative example(s)

- critical care physician assistant - fellowship
- critical care physician assistant - residency
- critical care physician associate - residency
- critical care physician associate - fellowship

60.0908 Critical care and trauma surgery physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in critical care and trauma surgery.

Illustrative example(s)

- critical care and trauma surgery physician assistant - fellowship
- critical care and trauma surgery physician assistant - residency
- critical care and trauma surgery physician associate - fellowship
- critical care and trauma surgery physician associate - residency

60.0909 Emergency medicine physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in emergency medicine.

Illustrative example(s)

- emergency medicine physician assistant - fellowship
- emergency medicine physician assistant - residency
- emergency medicine physician associate - fellowship
- emergency medicine physician associate - residency

60.0910 ENT surgery physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in ENT (ears, nose, and throat) surgery.

Illustrative example(s)

- ENT surgery physician assistant - fellowship
- ENT surgery physician assistant - residency
- ENT surgery physician associate - residency
- ORL surgery physician assistant - fellowship
- ORL surgery physician assistant - residency
- ORL surgery physician associate - residency
- otolaryngology surgery physician assistant - fellowship
- otolaryngology surgery physician assistant - residency
- otorhinolaryngology surgery physician assistant - fellowship
- otorhinolaryngology surgery physician assistant - residency

60.0911 Family medicine physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in family medicine.

Illustrative example(s)

- family medicine physician associate - residency
- family medicine physician assistant - fellowship

- family medicine physician assistant - residency
- family medicine physician associate - fellowship

60.0912 Geriatrics physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in geriatrics.

Illustrative example(s)

- geriatrics physician assistant - fellowship
- geriatrics physician assistant - residency
- geriatrics physician associate - fellowship
- geriatrics physician associate - residency

60.0913 Hematology-oncology physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in hematology and oncology.

Illustrative example(s)

- hematology-oncology physician assistant - fellowship
- hematology-oncology physician assistant - residency
- hematology-oncology physician associate - fellowship
- hematology-oncology physician associate - residency

60.0914 Hepatobiliary surgery physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in hepatobiliary surgery.

Illustrative example(s)

- hepatobiliary surgery physician assistant - fellowship
- hepatobiliary surgery physician assistant - residency
- hepatobiliary surgery physician associate - fellowship
- hepatobiliary surgery physician associate - residency

60.0915 Hospitalist physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in hospital medicine.

Illustrative example(s)

- hospitalist physician associate - fellowship
- hospitalist physician assistant - fellowship
- hospitalist physician assistant - residency
- hospitalist physician associate - residency

60.0916 Neurosurgery physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in neurosurgery.

Illustrative example(s)

- neurosurgery physician assistant - fellowship
- neurosurgery physician assistant - residency
- neurosurgery physician associate - fellowship
- neurosurgery physician associate - residency

60.0917 Orthopedic surgery physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in orthopedic surgery.

Illustrative example(s)

- orthopedic surgery physician assistant - fellowship
- orthopedic surgery physician assistant - residency
- orthopedic surgery physician associate - fellowship
- orthopedic surgery physician associate - residency

60.0918 Pediatric surgery physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in pediatric surgery.

Illustrative example(s)

- pediatric surgery physician assistant - fellowship
- pediatric surgery physician assistant - residency
- pediatric surgery physician associate - fellowship
- pediatric surgery physician associate - residency

60.0919 Transplant surgery physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in transplant surgery.

Illustrative example(s)

- transplant surgery physician assistant - fellowship
- transplant surgery physician assistant - residency
- transplant surgery physician associate - fellowship
- transplant surgery physician associate - residency

60.0920 Urology physician assistant residency/fellowship programs

This instructional program class comprises any residency or fellowship program for licensed physician assistants/associates that provides advanced training in urology.

Illustrative example(s)

- urology physician assistant - fellowship
- urology physician assistant - residency
- urology physician associate - fellowship
- urology physician associate - residency

60.0999 Physician assistant residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Physician assistant/associate residency/fellowship programs.

Illustrative example(s)

- other physician assistant fellowship programs
- other physician assistant residency programs
- other physician associate fellowship programs
- other physician associate residency programs

60.99 Health professions residency/fellowship programs, other

This subseries comprises instructional program class 60.9999.

60.9999 Health professions residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Health professions residency/fellowship programs.

Illustrative example(s)

- other health professions fellowship programs
- other health professions residency programs

Exclusion(s)

- pharmacy - residency (See 60.0801-Pharmacy residency/fellowship programs, general)

61. Medical residency/fellowship programs

This series comprises residency and fellowship programs that prepare physicians (MD), osteopathic physicians (DO), and podiatrists (DPM) for certification as practitioners of recognized medical specialties. These programs are approved and accredited by designated professional associations and require from one to seven years to complete, depending on the program. Residency or fellowship programs that also result in the completion of an academic degree (e.g., MS, MSc, PhD), should be reported under one of the clinical sciences codes located in Series 26. Biological and biomedical sciences or in subseries 51.14 Medical clinical sciences/graduate medical studies, rather than in a residency code located in Series 61.

61.01 Combined medical residency/fellowship programs

This subseries comprises instructional program classes 61.0101 to 61.0199.

61.0101 Combined medical residency/fellowship programs, general

This instructional program class comprises any combined educational program in two or more closely related medical specialty or subspecialty programs which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- combined medical fellowship programs
- combined medical residency programs
- combined medical residency/fellowship programs

61.0102 Diagnostic radiology/nuclear medicine combined specialty programs

This instructional program class comprises any combined educational program in diagnostic radiology and nuclear medicine which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- diagnostic radiology and nuclear medicine - combined specialty
- diagnostic radiology/nuclear medicine - combined specialty

61.0103 Emergency medicine/anesthesiology combined specialty programs

This instructional program class comprises any combined educational program in emergency medicine and anesthesiology which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- emergency medicine and anesthesiology - combined specialty
- emergency medicine/anesthesiology - combined specialty

61.0104 Family medicine/emergency medicine combined specialty programs

This instructional program class comprises any combined educational program in family medicine and emergency medicine which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- family medicine and emergency medicine - combined specialty
- family medicine/emergency medicine - combined specialty

61.0105 Family medicine/osteopathic neuromusculoskeletal medicine combined specialty programs

This instructional program class comprises any combined educational program in family medicine and osteopathic neuromusculoskeletal medicine which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- family medicine and osteopathic neuromusculoskeletal medicine - combined specialty
- family medicine/osteopathic neuromusculoskeletal medicine - combined specialty

61.0106 Family medicine/preventive medicine combined specialty programs

This instructional program class comprises any combined educational program in family medicine and preventative medicine which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- family medicine and preventive medicine - combined specialty
- family medicine/preventive medicine - combined specialty

61.0107 Family medicine/psychiatry combined specialty programs

This instructional program class comprises any combined educational program in family medicine and psychiatry which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- family medicine and psychiatry - combined specialty
- family medicine/psychiatry - combined specialty

61.0108 Internal medicine/anesthesiology combined specialty programs

This instructional program class comprises any combined educational program in internal medicine and anesthesiology which has been approved by the specialty board of each of the specialties to ensure that resident

physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- internal medicine and anesthesiology - combined specialty
- internal medicine/anesthesiology - combined specialty

61.0109 Internal medicine/dermatology combined specialty programs

This instructional program class comprises any combined educational program in internal medicine and dermatology which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- internal medicine and dermatology - combined specialty
- internal medicine/dermatology - combined specialty

61.0110 Internal medicine/emergency medicine combined specialty programs

This instructional program class comprises any combined educational program in internal medicine and emergency medicine which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- internal medicine and emergency medicine - combined specialty
- internal medicine/emergency medicine - combined specialty

61.0111 Internal medicine/emergency medicine/critical care medicine combined specialty programs

This instructional program class comprises any combined educational program in internal medicine, emergency medicine, and critical care medicine which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- internal medicine, emergency medicine, and critical care medicine - combined specialty
- internal medicine/emergency medicine/critical care medicine - combined specialty

61.0112 Internal medicine/family medicine combined specialty programs

This instructional program class comprises any combined educational program in internal medicine and family medicine which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- internal medicine and family medicine - combined specialty
- internal medicine/family medicine - combined specialty

61.0113 Internal medicine/medical genetics and genomics combined specialty programs

This instructional program class comprises any combined educational program in internal medicine and medical genetics and genomics which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- internal medicine and medical genetics and genomics - combined specialty
- internal medicine/medical genetics and genomics - combined specialty

61.0114 Internal medicine/neurology combined specialty programs

This instructional program class comprises any combined educational program in internal medicine and neurology which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- internal medicine and neurology - combined specialty
- internal medicine/neurology - combined specialty

61.0115 Internal medicine/pediatrics combined specialty programs

This instructional program class comprises any combined educational program in internal medicine and pediatrics which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- internal medicine and pediatrics - combined specialty
- internal medicine/pediatrics - combined specialty

61.0116 Internal medicine/preventive medicine combined specialty programs

This instructional program class comprises any combined educational program in internal medicine and preventative medicine which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- internal medicine and preventive medicine - combined specialty
- internal medicine/preventive medicine - combined specialty

61.0117 Internal medicine/psychiatry combined specialty programs

This instructional program class comprises any combined educational program in internal medicine and psychiatry which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- internal medicine and psychiatry - combined specialty

- internal medicine/psychiatry - combined specialty

61.0118 Medical genetics and genomics/maternal-fetal medicine combined specialty programs

This instructional program class comprises any combined educational program in medical genetics and genomics and maternal-fetal medicine which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- medical genetics and genomics, and maternal-fetal medicine - combined specialty
- medical genetics and genomics/maternal-fetal medicine - combined specialty

61.0119 Pediatrics/anesthesiology combined specialty programs

This instructional program class comprises any combined educational program in pediatrics and anesthesiology which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- pediatrics and anesthesiology - combined specialty
- pediatrics/anesthesiology - combined specialty

61.0120 Pediatrics/emergency medicine combined specialty programs

This instructional program class comprises any combined educational program in pediatrics and emergency medicine which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- pediatrics and emergency medicine - combined specialty
- pediatrics/emergency medicine - combined specialty

61.0121 Pediatrics/medical genetics and genomics combined specialty programs

This instructional program class comprises any combined educational program in pediatrics and medical genetics and genomics which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- pediatrics, and medical genetics and genomics - combined specialty
- pediatrics/medical genetics and genomics - combined specialty

61.0122 Pediatrics/physical medicine and rehabilitation combined specialty programs

This instructional program class comprises any combined educational program in pediatrics and physical medicine and rehabilitation which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- pediatrics, and physical medicine and rehabilitation - combined specialty
- pediatrics/physical medicine and rehabilitation - combined specialty

61.0123 Pediatrics/psychology/child and adolescent psychology combined specialty programs

This instructional program class comprises any combined educational program in pediatrics, psychology, and child and adolescent psychology which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- pediatrics, psychology, and child and adolescent psychology - combined specialty
- pediatrics/psychology/child and adolescent psychology - combined specialty

Exclusion(s)

- adolescent psychology (See 42.2710-Developmental and adolescent psychology)
- child and adolescent psychiatry - fellowship (See 61.2403-Child and adolescent psychiatry fellowship programs)
- developmental and child psychology (See 42.2703-Developmental and child psychology)

61.0124 Psychiatry/neurology combined specialty programs

This instructional program class comprises any combined educational program in psychiatry and neurology which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- psychiatry and neurology - combined specialty
- psychiatry/neurology - combined specialty

61.0125 Reproductive endocrinology and infertility/medical genetics and genomics combined specialty programs

This instructional program class comprises any combined educational program in reproductive endocrinology and infertility and medical genetics and genomics which has been approved by the specialty board of each of the specialties to ensure that resident physicians completing combined training are eligible for board certification in each of the component specialties. The duration of combined training is longer than any one of its component specialty programs standing alone, and shorter than all of its component specialty programs together.

Illustrative example(s)

- reproductive endocrinology and infertility, and medical genetics and genomics - combined specialty
- reproductive endocrinology and infertility/medical genetics and genomics - combined specialty

61.0199 Combined medical residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Combined medical residency/fellowship programs.

Illustrative example(s)

- other combined medical fellowship programs
- other combined medical residency programs
- other combined medical residency/fellowship programs

61.02 Multiple-pathway medical fellowship programs

This subseries comprises instructional program classes 61.0202 to 61.0299.

61.0202 Critical care medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the management of care for patients with acutely life-threatening conditions which may include multiple organ failure. These programs include instruction in the management of critical care units, emergency procedures and post-discharge care of former critical care patients. Requires prior completion of a residency program in anesthesiology, internal medicine, or obstetrics and gynecology. Note: critical care anesthesiology is no longer a medical subspecialty, but anesthesiologists may complete a subspecialty in critical care medicine.

Illustrative example(s)

- critical care anesthesiology - fellowship
- critical care medicine - fellowship

Exclusion(s)

- anesthesiologist assistant (See 51.0809-Anesthesiologist assistant)
- anesthesiology - residency (See 61.0401-Anesthesiology residency programs)
- pediatric critical care medicine - fellowship (See 61.1907-Pediatric critical care medicine fellowship programs)

61.0203 Geriatric medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the care and management of elderly patients in acute, ambulatory, community and long-term care settings, and the treatment of diseases and conditions associated with the aging process. These programs include instruction in ethical and legal issues, behavioural aspects of illness, socioeconomic factors in care and rehabilitation therapies. Requires prior completion of a residency program in family medicine or internal medicine.

Illustrative example(s)

- geriatric medicine (internal medicine) - fellowship
- geriatric medicine - fellowship

Exclusion(s)

- geriatric dentistry (Cert., MS, MSc, PhD) (See 51.0513-Geriatric dentistry (Cert., MS, MSc, PhD))
- geriatric nurse (See 51.3821-Geriatric nurse/nursing)
- gerontology (See 30.1101-Gerontology)

61.0204 Health policy fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to effect change within the health care system and advocate for the practice of medicine to ultimately shape the future health care landscape on both local and national levels. Requires prior completion of an accredited medical residency program.

Illustrative example(s)

- health policy - fellowship

61.0205 Hospice and palliative medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to prevent and relieve the suffering experienced by patients with life-limiting illnesses and to maximize quality of life. These programs include instruction in the physical, psychological, social, and spiritual needs of both patient and family throughout the course of the disease, through the dying process, and subsequent family grieving. Requires prior completion of a residency program in anesthesiology, emergency medicine, family medicine, internal medicine,

neurology, child neurology, obstetrics and gynecology, pediatrics, physical medicine and rehabilitation, psychiatry, radiation oncology, or general surgery.

Illustrative example(s)

- hospice and palliative medicine - fellowship
- palliative medicine - fellowship

Exclusion(s)

- hospice and palliative care (See 51.1512-Hospice and palliative care)
- pain medicine - fellowship (See 61.0210-Pain medicine fellowship programs)
- palliative care nursing (See 51.3819-Palliative care nurse/nursing)

61.0206 Integrative medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to practice medicine in a way that reaffirms the importance of the relationship between practitioner and patient, focuses on the whole person, is informed by evidence, and makes use of all appropriate therapeutic approaches, healthcare professionals, and disciplines to achieve optimal health and healing. Requires prior completion of an accredited medical residency program.

Illustrative example(s)

- integrative medicine - fellowship

61.0207 Medical education fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to teach, deliver, design, and evaluate courses and curricula for medical students, residents, and faculty. Requires prior completion of an accredited medical residency program.

Illustrative example(s)

- medical education - fellowship

Exclusion(s)

- health professions education (See 51.3202-Health professions education)

61.0208 Medical toxicology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the prevention, evaluation, treatment, and monitoring of injury and illness from exposures to drugs and chemicals, as well as exposures to biological and radiological agents. These programs include instruction in acute drug poisoning; adverse drug events; drug abuse, addiction and withdrawal; chemicals and hazardous materials; terrorism preparedness; venomous bites and stings; and environmental and workplace exposures. Requires prior completion of a residency program in emergency medicine, pediatrics, or preventive medicine.

Illustrative example(s)

- medical toxicology - fellowship

Exclusion(s)

- toxicology (See 26.1004-Toxicology)
- veterinary toxicology - residency (See 60.0316-Veterinary toxicology residency programs)

61.0209 Neuromuscular medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and management of disorders of nerve, muscle, or neuromuscular junction. These programs include instruction in amyotrophic lateral sclerosis, peripheral neuropathies, various muscular dystrophies, congenital

and acquired myopathies, inflammatory myopathies, and neuromuscular transmission disorders. Requires prior completion of a residency program in neurology, child neurology, or physical medicine and rehabilitation.

Illustrative example(s)

- neuromuscular medicine - fellowship

Exclusion(s)

- child neurology - residency (See 61.1102-Child neurology residency programs)
- neurology - residency (See 61.1101-Neurology residency programs)
- physical medicine and rehabilitation - residency (See 61.2001-Physical medicine and rehabilitation residency programs)

61.0210 Pain medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and treatment of the entire range of painful disorders, either as a primary physician or consultant, for patients experiencing problems with acute, chronic, and/or cancer pain in both hospital and ambulatory settings. Requires prior completion of a residency program in anesthesiology, neurology, child neurology, physical medicine and rehabilitation, or psychiatry.

Illustrative example(s)

- pain medicine - fellowship

Exclusion(s)

- hospice and palliative medicine - fellowship (See 61.0205-Hospice and palliative medicine fellowship programs)
- pain management (college) (See 51.3899-Registered nursing, nursing administration, nursing research and clinical nursing, other)
- pain management (university) (See 51.1403-Pain management (Cert., MS, MSc, PhD))
- pain management nurse practitioner - fellowship (See 60.0733-Pain management nurse practitioner residency/fellowship programs)

61.0211 Healthcare simulation fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to develop, implement, manage, and assess healthcare simulation-based activities and programs. Requires prior completion of an accredited medical residency program.

Illustrative example(s)

- healthcare simulation - fellowship

61.0212 Sleep medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and management of clinical conditions that occur during sleep, that disturb sleep, or that are affected by disturbances in the wake-sleep cycle. These programs include instruction in the analysis and interpretation of comprehensive polysomnography and in management of a sleep laboratory. Requires prior completion of a residency program in family medicine, internal medicine, neurology, child neurology, otolaryngology, pediatrics, or psychiatry.

Illustrative example(s)

- sleep medicine - fellowship

Exclusion(s)

- sleep technology (See 51.0917-Polysomnography)

61.0213 Sports medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the pathology and biomechanics of athletic injuries and the effects of injury on the athlete, including both physical and psychological manifestations. These programs include instruction in acute and chronic patient supervision, therapy and rehabilitation, and diagnostic procedures. Requires prior completion of a residency program in emergency medicine, family medicine, internal medicine, orthopedic surgery, pediatrics, or physical medicine and rehabilitation.

Illustrative example(s)

- sports medicine - fellowship

Exclusion(s)

- kinesiology (See 31.0505-Exercise science and kinesiology)
- orthopaedic sports medicine - fellowship (See 61.1503-Orthopaedic sports medicine fellowship programs)
- sports injury therapist (See 51.0913-Athletic training/trainer)

61.0214 Surgery of the hand fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the investigation, preservation and restoration by medical, surgical or physical methods of all structures of the upper extremity which directly affect the form and function of the limb, wrist and hand. Requires prior completion of a residency program in orthopedic surgery, plastic surgery or general surgery.

Illustrative example(s)

- hand surgery - fellowship
- surgery of the hand - fellowship

61.0215 Telemedicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to bring together technology and clinical medicine to enhance the overall delivery of medical care. Requires prior completion of an accredited medical residency program.

Illustrative example(s)

- telemedicine - fellowship

61.0216 Undersea and hyperbaric medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to treat decompression illness and diving accident cases. These programs include instruction in using hyperbaric oxygen therapy treatment for conditions such as carbon monoxide poisoning, gas gangrene, non-healing wounds, tissue damage from radiation and burns, and bone infections; serving as consultant in all aspects of hyperbaric chamber operations; and assessing risks and apply appropriate standards to prevent disease and disability in divers and other persons working in altered atmospheric conditions. Requires prior completion of a residency program in emergency medicine or preventive medicine.

Illustrative example(s)

- hyperbaric medicine - fellowship
- undersea and hyperbaric medicine - fellowship
- undersea medicine - fellowship

Exclusion(s)

- emergency medicine - residency (See 61.0601-Emergency medicine residency programs)
- hyperbaric medicine technology (See 51.0921-Hyperbaric medicine technology/technician)
- preventive medicine - residency (See 61.2301-Public health and general preventive medicine residency programs)

61.0217 Wilderness medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to practice medicine with limited resources in austere environments or to provide healthcare anywhere in which environmental conditions have physiologic insult to a patient. Requires prior completion of an accredited medical residency program.

Illustrative example(s)

- wilderness medicine - fellowship

61.0218 Women's health fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to provide high-quality and culturally competent reproductive and gynecologic care to women, and to understand the interactions of biological, societal, behavioural, political, and environmental issues on the overall health of women. Requires prior completion of a residency program in emergency medicine, internal medicine, obstetrics-gynecology, or psychiatry.

Illustrative example(s)

- women's health - fellowship

61.0299 Multiple-pathway medical fellowship programs, other

This instructional program class comprises any program not listed above that relates to Multiple-pathway medical fellowship programs.

Illustrative example(s)

- other multiple-pathway medical fellowship programs

61.03 Allergy and immunology residency/fellowship programs

This subseries comprises instructional program classes 61.0301 to 61.0399.

61.0301 Allergy and immunology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the delivery of skilled medical care to patients suffering from allergic, asthmatic and immunologic diseases. Requires completion of a prior residency program in internal medicine or pediatrics.

Illustrative example(s)

- allergies and immunology - fellowship
- allergy and immunology - fellowship

61.0399 Allergy and immunology residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Allergy and immunology residency/fellowship programs.

Illustrative example(s)

- other allergy and immunology fellowship programs
- other allergy and immunology residency programs

61.04 Anesthesiology residency/fellowship programs

This subseries comprises instructional program classes 61.0401 to 61.0499.

61.0401 Anesthesiology residency programs

This instructional program class comprises any residency training program that prepares physicians in the application of anesthesia for general and specialized surgery and obstetrics, critical patient care, and the care of

pain problems. These programs include instruction in surgical procedures, current monitoring procedures, fluid therapy, pain management, diagnostic and therapeutic procedures outside the operating room, and operating room safety.

Illustrative example(s)

- anesthesiology - residency

Exclusion(s)

- anesthesiologist assistant (See 51.0809-Anesthesiologist assistant)
- critical care anesthesiology - fellowship (See 61.0202-Critical care medicine fellowship programs)

61.0499 Anesthesiology residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Anesthesiology residency/fellowship programs.

Illustrative example(s)

- other anesthesiology fellowship programs
- other anesthesiology residency programs

61.05 Dermatology residency/fellowship programs

This subseries comprises instructional program classes 61.0501 to 61.0599.

61.0501 Dermatology residency programs

This instructional program class comprises any residency training program that prepares physicians in the delivery of specialized care to patients with diseases of the skin, hair, nails and mucous membranes. These programs include instruction in dermatologic surgical procedures, cutaneous allergies, sexually transmitted diseases, and diagnostic and therapeutic techniques.

Illustrative example(s)

- dermatology - residency

Exclusion(s)

- pediatric dermatology - fellowship (See 61.0503-Pediatric dermatology fellowship programs)

61.0502 Dermatopathology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the clinical and microscopic diagnosis and analysis of skin diseases and disorders. These programs include instruction in laboratory administration and the supervision and training of support personnel. Requires prior completion of a residency program in dermatology.

Illustrative example(s)

- dermatopathology - fellowship

Exclusion(s)

- pathology - residency (See 61.1801-Combined anatomic and clinical pathology residency programs)

61.0503 Pediatric dermatology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the treatment of specific skin disease categories, with emphasis on those diseases which predominate in infants, children, and adolescents. Requires prior completion of a residency program in dermatology.

Illustrative example(s)

- pediatric dermatology - fellowship

Exclusion(s)

- dermatology - residency (See 61.0501-Dermatology residency programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)
- veterinary dermatology - residency (See 60.0303-Veterinary dermatology residency programs)

61.0599 Dermatology residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Dermatology residency/fellowship programs.

Illustrative example(s)

- other dermatology fellowship programs
- other dermatology residency programs

61.06 Emergency medicine residency/fellowship programs

This subseries comprises instructional program classes 61.0601 to 61.0699.

61.0601 Emergency medicine residency programs

This instructional program class comprises any residency training program that prepares physicians in the methods, procedures, and techniques of providing and managing immediate health care services. These programs include instruction in the initial recognition, stabilization, evaluation and care of the acutely ill or injured patient; patient follow-up and referral; management of prehospital care; training and supervision of emergency medical personnel; emergency department management; medicolegal and ethical issues; and disaster planning.

Illustrative example(s)

- emergency medicine - residency

Exclusion(s)

- emergency medical technician (paramedic) (See 51.0904-Emergency medical technology/technician (EMT paramedic))
- pediatric critical care medicine - fellowship (See 61.1907-Pediatric critical care medicine fellowship programs)
- pediatric emergency medicine - fellowship (See 61.1908-Pediatric emergency medicine fellowship programs)
- undersea and hyperbaric medicine - fellowship (See 61.0216-Undersea and hyperbaric medicine fellowship programs)

61.0602 Disaster medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to provide care for the victims of natural and man-made disasters with specific consideration given to timeliness and availability of resources. These programs include instruction in emergency medicine and its associated acute care specialties, public health, emergency management, humanitarian services, and prehospital emergency medical services (EMS). Requires prior completion of a residency program in emergency medicine.

Illustrative example(s)

- disaster medicine - fellowship

61.0603 Emergency medical services fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the leadership and medical oversight of pre- and out-of-hospital emergency care systems with advanced competencies in Emergency Medical System (EMS) system design, administration, and clinical care. These programs include instruction in clinical aspects of EMS, medical oversight of EMS, mass casualty management, disaster planning and operations, wilderness EMS systems, and quality management and research. Requires prior completion of a residency program in emergency medicine.

Illustrative example(s)

- emergency medical services - fellowship

61.0699 Emergency medicine residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Emergency medicine residency/fellowship programs.

Illustrative example(s)

- other emergency medicine fellowship programs
- other emergency medicine residency programs

61.07 Family medicine residency/fellowship programs

This subseries comprises instructional program classes 61.0701 to 61.0799.

61.0701 Family medicine residency programs

This instructional program class comprises any residency training program that prepares physicians in the provisions of regular and long-term care to individuals and family members. These programs include instruction in comprehensive care and specialist referral, basic surgery, emergency medical procedures, and diagnostic imaging and practice management.

Illustrative example(s)

- family medicine - residency

Exclusion(s)

- adolescent medicine - fellowship (See 61.1902-Adolescent medicine fellowship programs)
- general medicine (See 51.1201-Medicine (MD))

61.0799 Family medicine residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Family medicine residency/fellowship programs.

Illustrative example(s)

- other family medicine fellowship programs
- other family medicine residency programs

61.08 Internal medicine residency/fellowship programs

This subseries comprises instructional program classes 61.0801 to 61.0899.

61.0801 Internal medicine residency programs

This instructional program class comprises any residency training program that prepares physicians in the provision of general medical services to adult patients with a wide range of non-surgical clinical problems. These programs include instruction in behavioural aspects of diseases, patient and family counselling and practice management.

Illustrative example(s)

- internal medicine - residency

Exclusion(s)

- general medicine (See 51.1201-Medicine (MD))
- interventional cardiology - fellowship (See 61.0811-Interventional cardiology fellowship programs)
- transplant hepatology - fellowship (See 61.0818-Transplant hepatology fellowship programs)

61.0804 Cardiovascular disease fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to specialize in diseases of the heart and blood vessels and to manage complex cardiac conditions such as heart attacks and life-threatening, abnormal heartbeat rhythms. Requires prior completion of a residency program in internal medicine. Note: this subspecialty was previously titled Cardiology.

Illustrative example(s)

- cardiology - fellowship
- cardiovascular disease - fellowship

Exclusion(s)

- cardiovascular science (See 26.0907-Cardiovascular science)
- clinical cardiac electrophysiology - fellowship (See 61.0805-Clinical cardiac electrophysiology fellowship programs)
- congenital cardiac surgery - fellowship (See 61.2704-Congenital cardiac surgery fellowship programs)
- interventional cardiology - fellowship (See 61.0811-Interventional cardiology fellowship programs)
- pediatric cardiology - fellowship (See 61.1906-Pediatric cardiology fellowship programs)

61.0805 Clinical cardiac electrophysiology fellowship programs

This instructional program class comprises any fellowship training program, within the subspecialty of cardiovascular disease, which prepares physicians in intricate technical procedures to evaluate heart rhythms and determine appropriate treatment. Requires prior completion of a residency program in internal medicine.

Illustrative example(s)

- clinical cardiac electrophysiology - fellowship

Exclusion(s)

- cardiology - fellowship (See 61.0804-Cardiovascular disease fellowship programs)
- cardiology technology (See 51.0901-Cardiovascular technology/technologist)
- interventional cardiology - fellowship (See 61.0811-Interventional cardiology fellowship programs)

61.0806 Endocrinology, diabetes and metabolism fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to specialize in disorders of the internal (endocrine) glands such as the thyroid and adrenal glands. These programs include instruction in diabetes, metabolic and nutritional disorders, obesity, pituitary diseases, and menstrual and sexual problems. Requires prior completion of a residency program in internal medicine.

Illustrative example(s)

- endocrinology and metabolism - fellowship
- endocrinology, diabetes and metabolism - fellowship

Exclusion(s)

- endocrinology (See 26.0904-Endocrinology)
- pediatric endocrinology - fellowship (See 61.1909-Pediatric endocrinology fellowship programs)

61.0807 Gastroenterology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and treatment of patients with digestive and other gastrointestinal disorders. These programs include instruction in surgical procedures, cancer of the digestive system, nutrition and malnutrition, and counselling the behavioural adjustment of patients with chronic problems. Requires prior completion of a residency program in internal medicine.

Illustrative example(s)

- gastroenterology - fellowship

Exclusion(s)

- pediatric gastroenterology - fellowship (See 61.1910-Pediatric gastroenterology fellowship programs)

61.0808 Hematology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the mechanisms and therapy of diseases of the blood, bone marrow, spleen, and lymph. These programs include instruction in patient management, diagnostic tests, biopsies and other procedures. Requires prior completion of a residency program in internal medicine or pathology.

Illustrative example(s)

- hematology - fellowship

Exclusion(s)

- hematology technologist (See 51.1003-Hematology technology/technician)

61.0809 Hematology-oncology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and treatment of cancer, benign and malignant tumors, and diseases of the blood, bone marrow, spleen, and lymph. Requires prior completion of a residency program in internal medicine.

Illustrative example(s)

- hematology-oncology - fellowship

61.0810 Infectious disease fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the natural history, prevention and treatment of major infectious diseases, including sexually transmitted diseases, and the long-term management of patients. These programs include instruction in epidemiology, identification and specimen collection techniques, and quality assurance and cost containment. Requires prior completion of a residency program in internal medicine.

Illustrative example(s)

- infectious disease - fellowship

Exclusion(s)

- pediatric infectious diseases - fellowship (See 61.1912-Pediatric infectious diseases fellowship programs)
- tropical medicine (See 51.1405-Tropical medicine (Cert., MS, MSc, PhD))

61.0811 Interventional cardiology fellowship programs

This instructional program class comprises any fellowship training program, within the subspecialty of cardiology, which trains physicians in the use of specialized imaging and other diagnostic techniques to evaluate blood flow and pressure in the coronary arteries and chambers of the heart, and in the use of technical procedures and medications to treat abnormalities that impair the function of the cardiovascular system. Requires prior completion of a residency program in internal medicine.

Illustrative example(s)

- interventional cardiology - fellowship

Exclusion(s)

- cardiology - fellowship (See 61.0804-Cardiovascular disease fellowship programs)

- clinical cardiac electrophysiology - fellowship (See 61.0805-Clinical cardiac electrophysiology fellowship programs)
- congenital cardiac surgery - fellowship (See 61.2704-Congenital cardiac surgery fellowship programs)
- internal medicine - residency (See 61.0801-Internal medicine residency programs)
- vascular and interventional radiology - fellowship (See 61.2612-Vascular and interventional radiology fellowship programs)

61.0812 Nephrology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the pathogenesis, natural history and management of congenital and acquired diseases of the kidney and urinary tract and renal diseases associated with systemic disorders. These programs include instruction in organ transplantation and dialysis therapy. Requires prior completion of a residency program in internal medicine.

Illustrative example(s)

- nephrology - fellowship

Exclusion(s)

- pediatric nephrology - fellowship (See 61.1913-Pediatric nephrology fellowship programs)

61.0813 Medical oncology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and treatment of all types of cancer and other benign and malignant tumours; this includes deciding on and administering therapy for these malignancies, as well as consulting with surgeons and radiotherapists on other treatments for cancer. Requires prior completion of a residency program in internal medicine.

Illustrative example(s)

- medical oncology - fellowship
- oncology - fellowship

Exclusion(s)

- musculoskeletal oncology - fellowship (See 61.1502-Musculoskeletal oncology fellowship programs)
- oncology (See 26.0911-Oncology and cancer biology)
- pediatric hemato-oncology - fellowship (See 61.1911-Pediatric hematology-oncology fellowship programs)
- radiation oncology - residency (See 61.2501-Radiation oncology residency programs)

61.0814 Pulmonary disease fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in pulmonary physiology and the treatment of lung diseases, pulmonary malignancies, related vascular diseases, respiratory disorders, diagnostic and therapeutic procedures, and pulmonary pathology. Requires prior completion of a residency program in internal medicine.

Illustrative example(s)

- pulmonary disease - fellowship

Exclusion(s)

- pediatric pulmonology - fellowship (See 61.1914-Pediatric pulmonology fellowship programs)

61.0816 Rheumatology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and treatment of patients with acute and chronic rheumatic diseases, diffuse connective tissue diseases, systemic and metabolic diseases and infections and complications following surgery. Requires prior completion of a residency program in internal medicine.

Illustrative example(s)

- rheumatology - fellowship

Exclusion(s)

- pediatric rheumatology - fellowship (See 61.1915-Pediatric rheumatology fellowship programs)

61.0818 Transplant hepatology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians with special knowledge and the skill required of a gastroenterologist to care for patients prior to and following hepatic transplantation that spans all phases of liver transplantation. Requires prior completion of a residency program in internal medicine.

Illustrative example(s)

- transplant hepatology - fellowship

Exclusion(s)

- internal medicine - residency (See 61.0801-Internal medicine residency programs)
- pediatric transplant hepatology - fellowship (See 61.1917-Pediatric transplant hepatology fellowship programs)

61.0899 Internal medicine residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Internal medicine residency/fellowship programs.

Illustrative example(s)

- other internal medicine fellowship programs
- other internal medicine residency programs

61.09 Medical genetics and genomics residency/fellowship programs

This subseries comprises instructional program classes 61.0901 to 61.0999.

61.0901 Clinical biochemical genetics residency programs

This instructional program class comprises any residency training program that prepares physicians to perform and interpret biochemical analyses relevant to the diagnosis and management of human genetic diseases, and to serve as a consultant regarding laboratory diagnosis of a broad range of inherited disorders. One of three general certificates in the area of medical genetics.

Illustrative example(s)

- clinical biochemical genetics - residency

Exclusion(s)

- chemical and biochemical engineering (See 14.4301-Biochemical engineering)
- clinical cytogenetics - residency (See 61.0903-Laboratory genetics and genomics residency programs)
- clinical genetics - residency (See 61.0902-Clinical genetics and genomics residency programs)
- genetics (See 26.0801-Genetics, general)
- medical biochemical genetics - residency (See 61.0904-Medical biochemical genetics residency programs)
- medical genetics (See 26.0806-Human/medical genetics)

61.0902 Clinical genetics and genomics residency programs

This instructional program class comprises any residency training program that prepares physicians to provide comprehensive diagnostic, management, and counselling services for individuals and families at risk for clinical disorders with a genetic basis. One of three general certificates in the area of medical genetics.

Illustrative example(s)

- clinical genetics - residency
- clinical genetics and genomics - residency

Exclusion(s)

- clinical biochemical genetics - residency (See 61.0901-Clinical biochemical genetics residency programs)
- clinical cytogenetics and genomics - residency (See 61.0903-Laboratory genetics and genomics residency programs)
- genetics (See 26.0801-Genetics, general)
- laboratory genetics and genomics - residency (See 61.0903-Laboratory genetics and genomics residency programs)
- medical biochemical genetics - residency (See 61.0904-Medical biochemical genetics residency programs)
- medical genetics (See 26.0806-Human/medical genetics)

61.0903 Laboratory genetics and genomics residency programs

This instructional program class comprises any residency training program that prepares physicians to direct and interpret both clinical cytogenetic and molecular genetic analyses relevant to the diagnosis and management of human genetic diseases. One of three general certificates in the area of medical genetics.

Illustrative example(s)

- clinical cytogenetics - residency
- clinical cytogenetics and genomics - residency
- clinical molecular genetics - residency
- clinical molecular genetics and genomics - residency
- laboratory genetics and genomics - residency

Exclusion(s)

- clinical biochemical genetics - residency (See 61.0901-Clinical biochemical genetics residency programs)
- clinical genetics - residency (See 61.0902-Clinical genetics and genomics residency programs)
- clinical genetics and genomics - residency (See 61.0902-Clinical genetics and genomics residency programs)
- cytogenetics (See 26.0899-Genetics, other)
- genetics (See 26.0801-Genetics, general)
- medical biochemical genetics - residency (See 61.0904-Medical biochemical genetics residency programs)
- medical genetics (See 26.0806-Human/medical genetics)
- molecular genetic pathology - fellowship (See 61.1812-Molecular genetic pathology fellowship programs)
- molecular genetics (See 26.0802-Molecular genetics)
- molecular medicine (See 26.1401-Molecular medicine)

61.0904 Medical biochemical genetics residency programs

This instructional program class comprises any residency training program that prepares physicians in the diagnosis and medical management of individuals with inborn errors of metabolism, including the provision of direct care and consultative care for individuals of all ages. Requires prior completion of a residency program in medical genetics.

Illustrative example(s)

- medical biochemical genetics - residency

Exclusion(s)

- chemical and biochemical engineering (See 14.4301-Biochemical engineering)
- clinical biochemical genetics - residency (See 61.0901-Clinical biochemical genetics residency programs)
- clinical genetics - residency (See 61.0902-Clinical genetics and genomics residency programs)

- clinical molecular genetics - residency (See 61.0903-Laboratory genetics and genomics residency programs)
- genetics (See 26.0801-Genetics, general)
- medical genetics (See 26.0806-Human/medical genetics)

61.0999 Medical genetics and genomics residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Medical genetics and genomics residency/fellowship programs.

Illustrative example(s)

- other medical genetics and genomics fellowship programs
- other medical genetics and genomics residency programs

61.10 Neurological surgery residency/fellowship programs

This subseries comprises instructional program classes 61.1001 to 61.1099.

61.1001 Neurological surgery residency programs

This instructional program class comprises any residency training program that prepares physicians in the prevention, diagnosis, evaluation, treatment, critical care, and rehabilitation of disorders of the central, peripheral, and autonomic nervous systems, using operative and non-operative means; the evaluation and treatment of pathological processes that modify the function or activity of the nervous system; and the management of pain.

Illustrative example(s)

- neurological surgery - residency
- neurological surgery/neurosurgery - residency
- neurosurgery - residency

Exclusion(s)

- vascular neurology - fellowship (See 61.1107-Vascular neurology fellowship programs)

61.1099 Neurological surgery residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Neurological surgery residency/fellowship programs.

Illustrative example(s)

- other neurological surgery fellowship programs
- other neurological surgery residency programs

61.11 Neurology residency/fellowship programs

This subseries comprises instructional program classes 61.1101 to 61.1199.

61.1101 Neurology residency programs

This instructional program class comprises any residency training program that prepares physicians in the diagnosis and treatment of all types of disease or impaired function of the brain, spinal cord, peripheral nerves, muscles and autonomic nervous system, as well as the blood vessels that relate to these structures.

Illustrative example(s)

- neurology - residency

Exclusion(s)

- child/pediatric neurology - residency (See 61.1102-Child neurology residency programs)
- neurodevelopmental disabilities - fellowship (See 61.1106-Neurodevelopmental disabilities fellowship programs)

- neuromuscular medicine - fellowship (See 61.0209-Neuromuscular medicine fellowship programs)
- neuroscience (See 26.1501-Neuroscience)
- neurotology - fellowship (See 61.1702-Neurotology fellowship programs)
- vascular neurology - fellowship (See 61.1107-Vascular neurology fellowship programs)

61.1102 Child neurology residency programs

This instructional program class comprises any residency training program that prepares physicians in the diagnosis and management of neurologic disorders of the neonatal period, infancy, early childhood, and adolescence. Requires training in neurology with additional training in child neurology.

Illustrative example(s)

- child neurology - residency
- child/pediatric neurology - residency
- neurology with special qualifications in child neurology - residency
- pediatric neurology - residency

Exclusion(s)

- developmental-behavioural pediatrics - fellowship (See 61.1904-Developmental-behavioural pediatrics fellowship programs)
- neurodevelopmental disabilities - fellowship (See 61.1106-Neurodevelopmental disabilities fellowship programs)
- neurology - residency (See 61.1101-Neurology residency programs)
- neuromuscular medicine - fellowship (See 61.0209-Neuromuscular medicine fellowship programs)
- vascular neurology - fellowship (See 61.1107-Vascular neurology fellowship programs)

61.1103 Clinical neurophysiology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and management of central, peripheral, and autonomic nervous system disorders. These programs include instruction in using a combination of clinical evaluation and electrophysiologic testing such as electroencephalography (EEG), electromyography (EMG), and nerve conduction studies (NCS). Requires prior completion of a residency program in neurology, child neurology, or psychiatry.

Illustrative example(s)

- clinical neurophysiology - fellowship

Exclusion(s)

- intraoperative neuromonitoring technology (See 51.0922-Intraoperative neuromonitoring technology/technician)
- neurophysiology (See 26.1503-Neurobiology and anatomy)

61.1104 Epilepsy fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and treatment of patients with epileptic seizures or with symptoms and signs whose differential diagnosis includes epileptic seizures. Requires prior completion of a residency program in neurology.

Illustrative example(s)

- epilepsy - fellowship

61.1105 Headache medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis, treatment, and research of headache and related disorders. Requires prior completion of a residency program in neurology.

Illustrative example(s)

- headache medicine - fellowship

61.1106 Neurodevelopmental disabilities fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to treat children having developmental delays or learning disorders, including those associated with visual and hearing impairment, mental retardation, cerebral palsy, spina bifida, autism, and other chronic neurologic conditions. Requires prior completion of a residency program in neurology, child neurology, or pediatrics.

Illustrative example(s)

- neurodevelopmental disabilities - fellowship

Exclusion(s)

- child neurology - residency (See 61.1102-Child neurology residency programs)
- developmental-behavioural pediatrics - fellowship (See 61.1904-Developmental-behavioural pediatrics fellowship programs)
- neurology - residency (See 61.1101-Neurology residency programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)

61.1107 Vascular neurology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the evaluation, prevention, treatment, and recovery from vascular diseases of the nervous system resulting from a large number of causes, such as ischemic stroke, intracranial hemorrhage, spinal cord ischemia, and spinal cord hemorrhage. Requires prior completion of a residency program in neurology or child neurology.

Illustrative example(s)

- vascular neurology -fellowship

Exclusion(s)

- neurological surgery - residency (See 61.1001-Neurological surgery residency programs)
- neurology - residency (See 61.1101-Neurology residency programs)
- pediatric neurology - residency (See 61.1102-Child neurology residency programs)
- vascular and interventional radiology - fellowship (See 61.2612-Vascular and interventional radiology fellowship programs)
- vascular surgery - fellowship (See 61.2708-Vascular surgery fellowship programs)

61.1199 Neurology residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Neurology residency/fellowship programs.

Illustrative example(s)

- other neurology fellowship programs
- other neurology residency programs

61.12 Nuclear medicine residency/fellowship programs

This subseries comprises instructional program classes 61.1201 to 61.1299.

61.1201 Nuclear medicine residency programs

This instructional program class comprises any residency training program that prepares physicians to use the tracer principle, most often with radiopharmaceuticals, to evaluate molecular, metabolic, physiologic and pathologic conditions of the body for the purposes of diagnosis, therapy and research. These programs include

instruction in tracer kinetics, the biologic effects of radiation exposure, the fundamentals of the physical sciences, and the principles and operation of radiation detection and imaging systems.

Illustrative example(s)

- nuclear medicine - residency

Exclusion(s)

- medical nuclear physics - residency (See 61.2605-Medical nuclear physics residency programs)
- nuclear medicine technology (See 51.0905-Nuclear medical technology/technologist)

61.1299 Nuclear medicine residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Nuclear medicine residency/fellowship programs.

Illustrative example(s)

- other nuclear medicine fellowship programs
- other nuclear medicine residency programs

61.13 Obstetrics and gynecology residency/fellowship programs

This subseries comprises instructional program classes 61.1301 to 61.1399.

61.1301 Obstetrics and gynecology residency programs

This instructional program class comprises any residency training program that prepares physicians in the diagnosis, prevention and treatment of diseases of women, especially those affecting the reproductive system, and the comprehensive care and treatment of women before, during and after childbirth.

Illustrative example(s)

- gynecology - residency
- obstetrics - residency
- obstetrics and gynecology - residency

Exclusion(s)

- gynecologic oncology - fellowship (See 61.1302-Gynecologic oncology fellowship programs)
- maternal and fetal medicine - fellowship (See 61.1303-Maternal and fetal medicine fellowship programs)
- reproductive endocrinology/infertility - fellowship (See 61.1304-Reproductive endocrinology/infertility fellowship programs)

61.1302 Gynecologic oncology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians for consultation and comprehensive management of patients with gynecologic cancer. These programs include instruction in diagnostic and therapeutic procedures necessary for the total care of the patient with gynecologic cancer and resulting complications. Requires prior completion of a residency program in obstetrics and gynecology.

Illustrative example(s)

- gynecologic oncology - fellowship

Exclusion(s)

- obstetrics and gynecology - residency (See 61.1301-Obstetrics and gynecology residency programs)

61.1303 Maternal and fetal medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to care for, or provide consultation on, patients with complications of pregnancy. These programs include instruction

in obstetrical, medical, and surgical complications of pregnancy and their effect on both the mother and the fetus, and the most current diagnostic and treatment modalities used in the care of patients with complicated pregnancies. Requires prior completion of a residency program in obstetrics and gynecology.

Illustrative example(s)

- maternal and fetal medicine - fellowship

Exclusion(s)

- obstetrics and gynecology - residency (See 61.1301-Obstetrics and gynecology residency programs)

61.1304 Reproductive endocrinology/infertility fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to manage complex problems relating to reproductive endocrinology and infertility. Requires prior completion of a residency program in obstetrics and gynecology.

Illustrative example(s)

- infertility - fellowship
- reproductive endocrinology - fellowship
- reproductive endocrinology/infertility - fellowship
- reproductive infertility - fellowship

Exclusion(s)

- endocrinology (See 26.0904-Endocrinology)
- obstetrics and gynecology - residency (See 61.1301-Obstetrics and gynecology residency programs)
- reproductive biology (See 26.0905-Reproductive biology)

61.1399 Obstetrics and gynecology residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Obstetrics and gynecology residency/fellowship programs.

Illustrative example(s)

- other obstetrics and gynecology fellowship programs
- other obstetrics and gynecology residency programs

61.14 Ophthalmology residency/fellowship programs

This subseries comprises instructional program classes 61.1401 to 61.1499.

61.1401 Ophthalmology residency programs

This instructional program class comprises any residency training program that prepares physicians in the diagnosis, prevention treatment of ophthalmic diseases and disorders, and ocular pathology procedures. These programs include instruction in eye surgery.

Illustrative example(s)

- ophthalmology - residency

Exclusion(s)

- dispensing optician (See 51.1801-Opticianry/ophthalmic dispensing optician)
- optometry (See 51.1701-Optometry (OD))

61.1499 Ophthalmology residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Ophthalmology residency/fellowship programs.

Illustrative example(s)

- other ophthalmology fellowship programs
- other ophthalmology residency programs

61.15 Orthopedic surgery residency/fellowship programs

This subseries comprises instructional program classes 61.1501 to 61.1599.

61.1501 Orthopedic surgery residency programs

This instructional program class comprises any residency training program that prepares physicians in the investigation, preservation, and restoration of the form and function of the extremities, spine and associated structures by medical, surgical and physical methods.

Illustrative example(s)

- adult reconstructive orthopedics (orthopedic surgery) - residency
- orthopedic surgery - residency
- orthopedics - residency
- orthopedics/orthopedic surgery - residency

Exclusion(s)

- orthopaedic sports medicine - fellowship (See 61.1503-Orthopaedic sports medicine fellowship programs)
- pediatric orthopedics - fellowship (See 61.1505-Pediatric orthopedics fellowship programs)

61.1502 Musculoskeletal oncology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and treatment of musculoskeletal neoplasm, and the application of cancer therapy regimes.

Illustrative example(s)

- musculoskeletal oncology - fellowship

Exclusion(s)

- oncology - fellowship (See 61.0813-Medical oncology fellowship programs)

61.1503 Orthopaedic sports medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to prevent and manage athletic injuries and to provide appropriate care for all structures of the musculoskeletal system directly affected by participation in sporting activity. Requires prior completion of a residency program in orthopedic surgery.

Illustrative example(s)

- orthopaedic sports medicine - fellowship

Exclusion(s)

- orthopedics - residency (See 61.1501-Orthopedic surgery residency programs)
- sports injury therapist (See 51.0913-Athletic training/trainer)
- sports medicine - fellowship (See 61.0213-Sports medicine fellowship programs)

61.1504 Orthopedic surgery of the spine fellowship programs

This instructional program class comprises any fellowship training program that prepares individuals for the study, prevention and treatment of spinal column disease, disorders, and injuries by medical, physical and surgical methods. These programs include instruction in pathogenesis and diagnosis of clinical disorders of the spine; non-operative treatment modalities; invasive modalities; basic sciences related to the musculoskeletal system; spinal degeneration; spinal neurologic function; pre- and post-operative management; and patient evaluation.

Illustrative example(s)

- orthopedic surgery of the spine - fellowship

Exclusion(s)

- spinal cord injury medicine - fellowship (See 61.2002-Spinal cord injury medicine fellowship programs)

61.1505 Pediatric orthopedics fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis, surgical and non-surgical treatment, and management of musculoskeletal diseases, abnormalities and trauma in infants, children and adolescents. Requires prior completion of a residency program in orthopedic surgery.

Illustrative example(s)

- pediatric orthopedics - fellowship

Exclusion(s)

- orthopedics/orthopedic surgery - residency (See 61.1501-Orthopedic surgery residency programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)

61.1599 Orthopedic surgery residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Orthopedic surgery residency/fellowship programs.

Illustrative example(s)

- other orthopedic surgery fellowship programs
- other orthopedic surgery residency programs

61.16 Osteopathic medicine residency/fellowship programs

This subseries comprises instructional program classes 61.1601 to 61.1699.

61.1601 Osteopathic neuromusculoskeletal medicine residency programs

This instructional program class comprises any residency training program that prepares osteopathic (DO) physicians to perform osteopathic neuromusculoskeletal diagnosis and perform Osteopathic Manipulative Treatment (OMT).

Illustrative example(s)

- osteopathic neuromusculoskeletal medicine - residency

61.1699 Osteopathic medicine residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Osteopathic medicine residency/fellowship programs.

Illustrative example(s)

- other osteopathic medicine fellowship programs
- other osteopathic medicine residency programs

61.17 Otolaryngology residency/fellowship programs

This subseries comprises instructional program classes 61.1701 to 61.1799.

61.1701 Otolaryngology residency programs

This instructional program class comprises any residency training program that prepares physicians to diagnose and provide medical and/or surgical therapy or prevention of diseases, allergies, neoplasms, deformities,

disorders, and injuries of the ears, nose, sinuses, throat, respiratory and upper alimentary systems, face, jaws, and the other head and neck systems.

Illustrative example(s)

- otolaryngology - residency
- otorhinolaryngology - residency

Exclusion(s)

- neurotology - fellowship (See 61.1702-Neurotology fellowship programs)
- pediatric otolaryngology - fellowship (See 61.1703-Pediatric otolaryngology fellowship programs)
- plastic surgery within the head and neck - fellowship (See 61.2103-Plastic surgery within the head and neck fellowship programs)

61.1702 Neurotology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to treat diseases of the ear and temporal bone, including disorders of hearing and balance. Requires prior completion of a residency program in otolaryngology.

Illustrative example(s)

- neuro-otology - fellowship
- neurotology - fellowship

Exclusion(s)

- neurology - residency (See 61.1101-Neurology residency programs)
- otolaryngology - residency (See 61.1701-Otolaryngology residency programs)

61.1703 Pediatric otolaryngology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to diagnose, treat and manage disorders of infants and children that include congenital and acquired conditions involving the aerodigestive tract, nose and paranasal sinuses, the ear, and other areas of the head and neck. These programs include instruction in the diagnosis, treatment, and management of childhood disorders of voice, speech, language, and hearing. Requires prior completion of a residency program in otolaryngology.

Illustrative example(s)

- pediatric otolaryngology - fellowship
- pediatric otorhinolaryngology - fellowship

Exclusion(s)

- otolaryngology - residency (See 61.1701-Otolaryngology residency programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)

61.1799 Otolaryngology residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Otolaryngology residency/fellowship programs.

Illustrative example(s)

- other otolaryngology fellowship programs
- other otolaryngology residency programs

61.18 Pathology residency/fellowship programs

This subseries comprises instructional program classes 61.1801 to 61.1899.

61.1801 Combined anatomic and clinical pathology residency programs

This instructional program class comprises any residency training program that prepares physicians in the clinical laboratory analysis and diagnosis of disease and anatomic abnormalities. These programs include instruction in performing general autopsies, forensic medicine, laboratory management and quality control.

Illustrative example(s)

- anatomic pathology and clinical pathology - residency
- combined anatomic and clinical pathology - residency
- pathology - residency

Exclusion(s)

- dermatopathology - fellowship (See 61.0502-Dermatopathology fellowship programs)
- forensic pathology - fellowship (See 61.1807-Forensic pathology fellowship programs)
- hematological pathology - fellowship (See 61.1808-Hematological pathology fellowship programs)
- molecular genetic pathology - fellowship (See 61.1812-Molecular genetic pathology fellowship programs)
- neuropathology - fellowship (See 61.1813-Neuropathology fellowship programs)
- pathology (See 26.0910-Pathology/experimental pathology)
- pathology assistant (See 51.0811-Pathology/pathologist assistant)
- pediatric pathology - fellowship (See 61.1814-Pediatric pathology fellowship programs)
- radioisotopic pathology - fellowship (See 61.1815-Radioisotopic pathology fellowship programs)

61.1802 Anatomical pathology residency programs

This instructional program class comprises any residency training program that prepares physicians in the diagnosis of disease and anatomic abnormalities. These programs include instruction in autopsy pathology, cytology, diagnostic surgical pathology, forensic medicine, laboratory management, and quality control.

Illustrative example(s)

- anatomic pathology - residency
- anatomical pathology - residency

61.1803 Clinical pathology residency programs

This instructional program class comprises any residency training program that prepares physicians in the clinical laboratory analysis and diagnosis of disease. These programs include instruction in performing clinical chemistry, cytogenetics, immunology, laboratory management, microbiology, molecular biology, quality control, serology, toxicology, and virology.

Illustrative example(s)

- clinical pathology - residency

61.1804 Blood banking/transfusion medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians for the maintenance of an adequate blood supply, blood donor and patient-recipient safety, and appropriate blood utilization. These programs include instruction in directing the preparation and safe use of specially prepared blood components, including red blood cells, white blood cells, platelets and plasma constituents, and marrow or stem cells for transplantation. Requires prior completion of a residency program in pathology.

Illustrative example(s)

- blood banking - fellowship
- blood banking medicine - fellowship
- blood banking/transfusion medicine - fellowship
- transfusion medicine - fellowship

Exclusion(s)

- blood bank technologist (See 51.1001-Blood bank technology specialist)

61.1805 Chemical pathology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the use and interpretation of chemical analyses, chemical diagnoses and management, and the supervision of chemical pathology laboratories. These programs include instruction in basic and applied analytical chemical pathology; instrumentation data processing and chemical laboratory management. Requires prior completion of a residency program in medical pathology.

Illustrative example(s)

- chemical pathology - fellowship

61.1806 Cytopathology fellowship programs

This instructional program class comprises any fellowship training program that prepares individuals to study, prevent, and manage human diseases manifested in cells. These programs include instruction in laboratory procedures; laboratory management; quality assurance; screening; specimen collection; cytopreparation; cytometric and image analysis; and related immunological and molecular techniques. Requires prior completion of a residency program in pathology.

Illustrative example(s)

- cytopathology - fellowship

Exclusion(s)

- cytotechnology (See 51.1002-Cytotechnology/cytotechnologist)

61.1807 Forensic pathology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the performance of medical autopsies, the analysis of human remains and crime scenes, and the legal follow-up and responsibilities of public pathologists. Requires prior completion of a residency program in pathology.

Illustrative example(s)

- forensic pathology - fellowship

Exclusion(s)

- forensic chemistry (See 40.0510-Forensic chemistry)
- forensic science (See 43.0406-Forensic science and technology)
- pathology - residency (See 61.1801-Combined anatomic and clinical pathology residency programs)

61.1808 Hematological pathology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the laboratory and analytical procedures for studying all facets of hematologic and coagulation disorders. These programs include instruction in the management of hematology laboratories. Requires prior completion of a residency program in pathology.

Illustrative example(s)

- hematological pathology - fellowship

Exclusion(s)

- hematology technologist (See 51.1003-Hematology technology/technician)
- pathology - residency (See 61.1801-Combined anatomic and clinical pathology residency programs)

61.1809 Immunopathology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis, treatment and laboratory management of immunologic diseases. These programs include instruction in diagnostic surgical pathology, management of organ transplantation and immunotherapy. Requires prior completion of a residency program in pathology.

Illustrative example(s)

- immunopathology - fellowship

Exclusion(s)

- immunology (See 26.0507-Immunology)
- microbiology and immunology (See 26.0508-Microbiology and immunology)

61.1810 Laboratory medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the principles and practices of applied medical research and related techniques, equipment, data systems and research design. These programs include instruction in the management of medical laboratories in research and health care facilities.

Illustrative example(s)

- laboratory medicine - fellowship

Exclusion(s)

- medical laboratory science (See 51.1005-Clinical laboratory science/medical technology/technologist)
- medical laboratory technician (See 51.1004-Clinical/medical laboratory technician)

61.1811 Medical microbiology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the isolation and identification of microbial agents that cause infectious disease, including viruses, bacteria, fungi, and parasites. Requires prior completion of a residency program in pathology.

Illustrative example(s)

- medical microbiology - fellowship

Exclusion(s)

- medical microbiology (See 26.0503-Medical microbiology and bacteriology)
- microbiology (See 26.0502-Microbiology, general)
- veterinary microbiology - residency (See 60.0307-Veterinary microbiology residency programs)

61.1812 Molecular genetic pathology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to make or confirm diagnoses of Mendelian genetic disorders, disorders of human development, infectious diseases and malignancies, and to assess the natural history of those disorders, using the principles, theory, and technologies of molecular biology and molecular genetics. Requires prior completion of a residency program in medical genetics or pathology.

Illustrative example(s)

- molecular genetic pathology - fellowship

Exclusion(s)

- clinical molecular genetics - residency (See 61.0903-Laboratory genetics and genomics residency programs)
- genetics (See 26.0801-Genetics, general)

- medical genetics (See 26.0806-Human/medical genetics)
- molecular genetics (See 26.0802-Molecular genetics)
- molecular medicine (See 26.1401-Molecular medicine)
- pathology - residency (See 61.1801-Combined anatomic and clinical pathology residency programs)
- pathology (See 26.0910-Pathology/experimental pathology)

61.1813 Neuropathology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the laboratory analysis of nerve tissues and the clinical diagnosis of neurological and neuromuscular diseases. These programs include instruction in nerve biopsies and necropsies. Requires prior completion of a residency program in pathology.

Illustrative example(s)

- neuropathology - fellowship

Exclusion(s)

- pathology - residency (See 61.1801-Combined anatomic and clinical pathology residency programs)

61.1814 Pediatric pathology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the laboratory diagnosis of diseases that occur during fetal growth, infancy, and child development. These programs include instruction in general pathology, normal growth and development, and pediatric medicine. Requires prior completion of a residency program in pathology.

Illustrative example(s)

- pediatric pathology - fellowship

Exclusion(s)

- pathology - residency (See 61.1801-Combined anatomic and clinical pathology residency programs)
- pathology (See 26.0910-Pathology/experimental pathology)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)

61.1815 Radioisotopic pathology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the use of radionuclides in the study of body fluids, excreta, or tissues quantified outside the body. These programs include instruction in laboratory management and safety, quality control, instrumentation, isotope storage and in vitro analyses. Require prior completion of a residency program in pathology.

Illustrative example(s)

- radioisotopic pathology - fellowship

Exclusion(s)

- diagnostic radiology - residency (See 61.2601-Diagnostic radiology residency programs)
- pathology - residency (See 61.1801-Combined anatomic and clinical pathology residency programs)

61.1899 Pathology residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Pathology residency/fellowship programs.

Illustrative example(s)

- other pathology fellowship programs
- other pathology residency programs

61.19 Pediatrics residency/fellowship programs

This subseries comprises instructional program classes 61.1901 to 61.1999.

61.1901 Pediatrics residency programs

This instructional program class comprises any residency training program that prepares physicians in the comprehensive care and treatment of all aspects of human growth and development from conception through fetal life, infancy, childhood and adolescence, including preventive and therapeutic regimes. These programs include instruction in behavioural aspects of illness, related family and community medicine issues, and emergency and critical care procedures.

Illustrative example(s)

- pediatrics - residency

Exclusion(s)

- pediatric nursing (See 51.3809-Pediatric nurse/nursing)
- podiatric medicine (See 51.1203-Podiatric medicine/podiatry (DPM))

61.1902 Adolescent medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the unique physical, psychological, and social characteristics of adolescents and their healthcare problems and needs. Requires prior completion of a residency program in family medicine, internal medicine, or pediatrics.

Illustrative example(s)

- adolescent medicine - fellowship

Exclusion(s)

- child and adolescent psychiatry - fellowship (See 61.2403-Child and adolescent psychiatry fellowship programs)
- family medicine - residency (See 61.0701-Family medicine residency programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)

61.1903 Child abuse pediatrics fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to accurately diagnose abuse, consult with community agencies on child safety, provide expertise in courts of law, treat consequences of abuse and neglect, direct child abuse and neglect prevention programs and participate on multidisciplinary investigative teams, and manage child abuse cases. Requires prior completion of a residency program in pediatrics.

Illustrative example(s)

- child abuse pediatrics - fellowship

Exclusion(s)

- pediatrics - residency (See 61.1901-Pediatrics residency programs)

61.1904 Developmental-behavioural pediatrics fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to assist in the prevention, diagnosis, and management of developmental difficulties and problematic behaviours in children. These programs include instruction in family dysfunctions that compromise children's development; and understanding and promotion of optimal development of children and families through research, education, clinical care, and advocacy efforts. Requires prior completion of a residency program in pediatrics.

Illustrative example(s)

- developmental-behavioural pediatrics - fellowship

Exclusion(s)

- child and adolescent psychiatry - fellowship (See 61.2403-Child and adolescent psychiatry fellowship programs)
- child/pediatric neurology - residency (See 61.1102-Child neurology residency programs)
- neurodevelopmental disabilities - fellowship (See 61.1106-Neurodevelopmental disabilities fellowship programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)

61.1905 Neonatal-perinatal medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the physiology of the normal neonate, the pathophysiology of the sick infant, and the diagnosis and management of problems of the newborn infant, including consulting with obstetricians to plan for the care of women with high-risk pregnancies. Requires prior completion of a residency program in pediatrics.

Illustrative example(s)

- neonatal-perinatal medicine - fellowship

61.1906 Pediatric cardiology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and management of diseases and disorders of the cardiovascular and cardiopulmonary systems of infants, children and adolescents. These programs include instruction in related public health and community medicine issues. Requires prior completion of a residency program in pediatrics.

Illustrative example(s)

- pediatric cardiology - fellowship

Exclusion(s)

- cardiology - fellowship (See 61.0804-Cardiovascular disease fellowship programs)
- congenital cardiac surgery - fellowship (See 61.2704-Congenital cardiac surgery fellowship programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)

61.1907 Pediatric critical care medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in advanced life support for children, from the term or near-term neonate to the adolescent. These programs include instruction in critical care management of life-threatening organ system failure in both medical and surgical patients, and support of vital physiological functions. Requires prior completion of a residency program in pediatrics.

Illustrative example(s)

- pediatric critical care medicine - fellowship

Exclusion(s)

- critical care medicine - fellowship (See 61.0202-Critical care medicine fellowship programs)
- critical care nursing (See 51.3814-Critical care nurse/nursing)
- emergency medicine - residency (See 61.0601-Emergency medicine residency programs)
- pediatric emergency medicine - fellowship (See 61.1908-Pediatric emergency medicine fellowship programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)
- surgical critical care - fellowship (See 61.2706-Surgical critical care fellowship programs)
- veterinary emergency and critical care medicine - residency (See 60.0304-Veterinary emergency and critical care medicine residency programs)

61.1908 Pediatric emergency medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to manage emergencies in infants and children. Requires prior completion of a residency program in emergency medicine or pediatrics.

Illustrative example(s)

- pediatric emergency medicine - fellowship

Exclusion(s)

- emergency medical technician (ambulance) (See 51.0810-Emergency care attendant (EMT ambulance))
- emergency medical technician (paramedic) (See 51.0904-Emergency medical technology/technician (EMT paramedic))
- emergency medicine - residency (See 61.0601-Emergency medicine residency programs)
- emergency nursing (See 51.3816-Emergency room/trauma nurse/nursing)
- pediatric critical care medicine - fellowship (See 61.1907-Pediatric critical care medicine fellowship programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)
- veterinary emergency and critical care medicine - residency (See 60.0304-Veterinary emergency and critical care medicine residency programs)

61.1909 Pediatric endocrinology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and management of endocrine diseases and the regulation of hormone balance in childhood and adolescence. Requires prior completion of a residency program in pediatrics.

Illustrative example(s)

- pediatric endocrinology - fellowship

Exclusion(s)

- endocrinology (See 26.0904-Endocrinology)
- endocrinology and metabolism - fellowship (See 61.0806-Endocrinology, diabetes and metabolism fellowship programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)

61.1910 Pediatric gastroenterology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and treatment of diseases of the digestive systems of infants, children, and adolescents. These programs include instruction in treatment of conditions such as abdominal pain, ulcers, diarrhea, cancer, and jaundice, and performance of complex diagnostic and therapeutic procedures using lighted scopes to see internal organs. Requires prior completion of a residency program in pediatrics.

Illustrative example(s)

- pediatric gastroenterology - fellowship

Exclusion(s)

- gastroenterology - fellowship (See 61.0807-Gastroenterology fellowship programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)

61.1911 Pediatric hematology-oncology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and management of hematologic disorders and malignant diseases, including blood and bone marrow function, in infancy, childhood and adolescence. Requires prior completion of a residency program in pediatrics.

Illustrative example(s)

- pediatric hemato-oncology - fellowship
- pediatric hematology-oncology - fellowship

Exclusion(s)

- hematology-oncology - fellowship (See 61.0809-Hematology-oncology fellowship programs)
- oncology - fellowship (See 61.0813-Medical oncology fellowship programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)

61.1912 Pediatric infectious diseases fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis, treatment, and prevention of infectious diseases in children. These programs include instruction in effecting better outcomes for pediatric infections with complicated courses, underlying diseases that predispose to unusual or severe infections, unclear diagnoses, uncommon diseases, and complex or investigational treatments. Requires prior completion of a residency program in pediatrics.

Illustrative example(s)

- pediatric infectious diseases - fellowship

Exclusion(s)

- infectious disease - fellowship (See 61.0810-Infectious disease fellowship programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)
- veterinary infectious diseases (Cert., MS, MSc, PhD) (See 01.8106-Veterinary infectious diseases (Cert., MS, MSc, PhD))

61.1913 Pediatric nephrology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and management of infants, children and adolescents with renal and genito-urinary problems, hypertension and disorders of body fluid physiology. Requires prior completion of a residency program in pediatrics.

Illustrative example(s)

- pediatric nephrology - fellowship

Exclusion(s)

- nephrology - fellowship (See 61.0812-Nephrology fellowship programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)

61.1914 Pediatric pulmonology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the prevention and treatment of all respiratory diseases affecting infants, children, and young adults. These programs include instruction in lung growth and development, assessment of respiratory function in infants and children, and a variety of invasive and noninvasive diagnostic techniques. Requires prior completion of a residency program in pediatrics.

Illustrative example(s)

- pediatric pulmonology - fellowship

Exclusion(s)

- pediatrics - residency (See 61.1901-Pediatrics residency programs)
- pulmonary disease - fellowship (See 61.0814-Pulmonary disease fellowship programs)

61.1915 Pediatric rheumatology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to diagnose and treat diseases of joints, muscle, bones, and tendons in children and young adults. These programs include instruction in arthritis, back pain, muscle strains, common athletic injuries, and collagen diseases. Requires prior completion of a residency program in pediatrics.

Illustrative example(s)

- pediatric rheumatology - fellowship

Exclusion(s)

- pediatrics - residency (See 61.1901-Pediatrics residency programs)
- rheumatology - fellowship (See 61.0816-Rheumatology fellowship programs)

61.1917 Pediatric transplant hepatology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians with special knowledge, skill, and expertise required of pediatric gastroenterologists to care for children and young adults prior to and following hepatic transplantation. Requires prior completion of a residency program in pediatrics.

Illustrative example(s)

- pediatric transplant hepatology - fellowship

Exclusion(s)

- pediatrics - residency (See 61.1901-Pediatrics residency programs)
- transplant hepatology - fellowship (See 61.0818-Transplant hepatology fellowship programs)

61.1999 Pediatrics residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Pediatrics residency/fellowship programs.

Illustrative example(s)

- other pediatrics fellowship programs
- other pediatrics residency programs

61.20 Physical medicine and rehabilitation residency/fellowship programs

This subseries comprises instructional program classes 61.2001 to 61.2099.

61.2001 Physical medicine and rehabilitation residency programs

This instructional program class comprises any residency training program that prepares physicians in the diagnosis, etiology, treatment, prevention and rehabilitation of neuromusculoskeletal, cardiovascular, pulmonary and other system disorders common to patients of both sexes and all ages. These programs include instruction in physical examinations, design and prescription of rehabilitation strategies and the supervision of rehabilitation teams.

Illustrative example(s)

- physical and rehabilitation medicine - residency
- physical medicine and rehabilitation - residency

Exclusion(s)

- neuromuscular medicine - fellowship (See 61.0209-Neuromuscular medicine fellowship programs)
- pediatric rehabilitation medicine - fellowship (See 61.2003-Pediatric rehabilitation medicine fellowship programs)
- physical therapy (See 51.2308-Physical therapy/therapist)

61.2002 Spinal cord injury medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to address the prevention, diagnosis, treatment, and management of traumatic spinal cord injury and non-traumatic etiologies of spinal cord dysfunction. These programs include instruction in related medical, physical, psychological, and vocational disabilities and complications. Requires prior completion of a residency program in physical medicine and rehabilitation.

Illustrative example(s)

- spinal cord injury medicine - fellowship

Exclusion(s)

- orthopedic surgery of the spine - fellowship (See 61.1504-Orthopedic surgery of the spine fellowship programs)

61.2003 Pediatric rehabilitation medicine fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to use an interdisciplinary approach to prevent, diagnose, treat, and manage congenital and childhood-onset physical impairments in children and young adults. These programs include instruction in related medical, physical, functional, psychosocial, and vocational limitations or conditions. Requires prior completion of a residency program in physical medicine and rehabilitation.

Illustrative example(s)

- pediatric rehabilitation medicine - fellowship

Exclusion(s)

- pediatrics - residency (See 61.1901-Pediatrics residency programs)
- physical and rehabilitation medicine - residency (See 61.2001-Physical medicine and rehabilitation residency programs)
- rehabilitation aide (See 51.2604-Rehabilitation aide)
- rehabilitation assistant (RA) (See 51.0817-Rehabilitation assistant)
- rehabilitation science (See 51.2314-Rehabilitation science)

61.2099 Physical medicine and rehabilitation residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Physical medicine and rehabilitation residency/fellowship programs.

Illustrative example(s)

- other physical medicine and rehabilitation fellowship programs
- other physical medicine and rehabilitation residency programs

61.21 Plastic surgery residency/fellowship programs

This subseries comprises instructional program classes 61.2101 to 61.2199.

61.2101 Plastic surgery residency programs

This instructional program class comprises any residency training program that prepares physicians in the repair, replacement and reconstruction of defects of form and function of the integument and its underlying musculoskeletal system. These programs include instruction in aesthetic as well as reconstructive surgery, with emphasis on the craniofacial structures, the oropharynx, the hand, the breast and the external genitalia. Requires prior completion of a program in general surgery.

Illustrative example(s)

- plastic surgery - residency

Exclusion(s)

- plastic surgery within the head and neck - fellowship (See 61.2103-Plastic surgery within the head and neck fellowship programs)

61.2102 Integrated plastic surgery residency programs

This instructional program class comprises any residency training program that prepares physicians in the repair, replacement, and reconstruction of defects of form and function of the integument and its underlying musculoskeletal system. These programs include instruction in aesthetic as well as reconstructive surgery; with emphasis on the craniofacial structures, the oropharynx, the hand, the breast, and the external genitalia. Does NOT require prior completion of a program in general surgery.

Illustrative example(s)

- integrated plastic surgery - residency

61.2103 Plastic surgery within the head and neck fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in plastic and reconstructive procedures within the head, face, neck, and associated structures. These programs include instruction in cutaneous head and neck oncology and reconstruction, management of maxillofacial trauma, soft tissue repair, and neural surgery. Requires prior completion of a residency program in otolaryngology or plastic surgery.

Illustrative example(s)

- plastic surgery within the head and neck - fellowship

Exclusion(s)

- otolaryngology - residency (See 61.1701-Otolaryngology residency programs)
- plastic surgery - residency (See 61.2101-Plastic surgery residency programs)

61.2199 Plastic surgery residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Plastic surgery residency/fellowship programs.

Illustrative example(s)

- other plastic surgery fellowship programs
- other plastic surgery residency programs

61.22 Podiatric medicine residency/fellowship programs

This subseries comprises instructional program classes 61.2201 to 61.2299.

61.2201 Podiatric medicine and surgery residency programs

This instructional program class comprises any residency training program that prepares podiatrists for primary practice in podiatric healthcare and foot surgery. These programs include instruction in diagnosis and treatment of conditions affecting the human foot, ankle, and their governing and related structures, including the leg, and the local manifestations of systemic conditions, by all appropriate systems and means.

Illustrative example(s)

- general podiatric medicine and surgery - residency
- podiatric medicine - residency
- podiatric medicine and surgery - 24 - residency
- podiatric medicine and surgery - 36 - residency
- podiatric medicine and surgery - residency
- podiatric medicine and surgery specialty in rearfoot and ankle surgery - residency
- podiatric surgery - residency

- rearfoot and ankle surgery - residency

Exclusion(s)

- podiatric medicine (See 51.1203-Podiatric medicine/podiatry (DPM))

61.2299 Podiatric medicine residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Podiatric medicine residency/fellowship programs.

Illustrative example(s)

- other podiatric medicine fellowship programs
- other podiatric medicine residency programs

61.23 Preventive medicine residency/fellowship programs

This subseries comprises instructional program classes 61.2301 to 61.2399.

61.2301 Public health and general preventive medicine residency programs

This instructional program class comprises any residency training program that prepares physicians to promote health, prevent disease, and manage the health of communities and defined populations; combines population-based public health skills with knowledge of primary, secondary, and tertiary prevention-oriented clinical practice in a wide variety of settings. One of three general certificates in the area of preventive medicine. Note: this medical specialty merges the previous subspecialties of preventive medicine and public health medicine.

Illustrative example(s)

- preventive medicine - residency
- public health and general preventive medicine - residency
- public health and preventive medicine - residency
- public health medicine - residency

Exclusion(s)

- epidemiology (See 26.1309-Epidemiology)
- public health (MPH, DPH) (See 51.2201-Public health, general (BPH, MPH, DPH))
- public health nurse (See 51.3811-Public health/community nurse/nursing)
- undersea and hyperbaric medicine - fellowship (See 61.0216-Undersea and hyperbaric medicine fellowship programs)

61.2302 Aerospace medicine residency programs

This instructional program class comprises any residency training program that prepares physicians in the health care of operating crews, support personnel, and passengers of air and space vehicles. These programs include instruction in special conditions of physical and psychological stress, emergency medical procedures, adaptive systems and artificial environments. One of three general certificates in the area of preventive medicine.

Illustrative example(s)

- aerospace medicine - residency

Exclusion(s)

- aerospace physiology (See 26.0912-Aerospace physiology and medicine)

61.2303 Occupational medicine residency programs

This instructional program class comprises any residency training program that prepares physicians in the maintenance of the health of workers, the ability to perform work, the arrangements of work, and the physical and chemical environments of the workplace. These programs include instruction in data collection and management

and the administration and regulation of occupational medical services. One of three general certificates in the area of preventive medicine.

Illustrative example(s)

- occupational medicine - residency

61.2399 Preventive medicine residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Preventive medicine residency/fellowship programs.

Illustrative example(s)

- other preventive medicine fellowship programs
- other preventive medicine residency programs

61.24 Psychiatry residency/fellowship programs

This subseries comprises instructional program classes 61.2401 to 61.2499.

61.2401 Psychiatry residency programs

This instructional program class comprises any residency training program that prepares physicians in the diagnosis, treatment, and prevention of mental, emotional, behavioural and neurological disorders. These programs include instruction in psychotherapy, family counselling, referral, clinical diagnosis, and practice management.

Illustrative example(s)

- psychiatry - residency

Exclusion(s)

- addiction psychiatry - fellowship (See 61.2402-Addiction psychiatry fellowship programs)
- applied psychology (See 42.2813-Applied psychology)
- consultation-liaison psychiatry - fellowship (See 61.2404-Consultation-liaison psychiatry fellowship programs)
- forensic psychiatry - fellowship (See 61.2405-Forensic psychiatry fellowship programs)
- geriatric psychiatry - fellowship (See 61.2406-Geriatric psychiatry fellowship programs)
- mental health care (See 51.1502-Psychiatric/mental health services technician)
- psychiatric nurse (See 51.3810-Psychiatric/mental health nurse/nursing)
- psychoanalysis and psychotherapy (See 51.1507-Psychoanalysis and psychotherapy)
- registered psychiatric nurse (See 51.3823-Registered psychiatric nurse/nursing)

61.2402 Addiction psychiatry fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the evaluation and treatment of individuals with alcohol, drug, or other substance-related disorders, and of individuals with the dual diagnosis of substance-related and other psychiatric disorders. Requires prior completion of a residency program in psychiatry.

Illustrative example(s)

- addiction psychiatry - fellowship

Exclusion(s)

- addiction counselling (See 51.1501-Substance abuse/addiction counselling)
- psychiatry - residency (See 61.2401-Psychiatry residency programs)

61.2403 Child and adolescent psychiatry fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and treatment of developmental, behavioural, emotional, and mental disorders of childhood and adolescence. Requires prior completion of a residency program in psychiatry.

Illustrative example(s)

- adolescent psychiatry - fellowship
- child and adolescent psychiatry - fellowship
- child psychiatry - fellowship

Exclusion(s)

- adolescent medicine - fellowship (See 61.1902-Adolescent medicine fellowship programs)
- adolescent psychology (See 42.2710-Developmental and adolescent psychology)
- developmental and child psychology (See 42.2703-Developmental and child psychology)
- developmental-behavioural pediatrics - fellowship (See 61.1904-Developmental-behavioural pediatrics fellowship programs)
- pediatrics/psychology/child and adolescent psychology - combined specialty (See 61.0123-Pediatrics/psychology/child and adolescent psychology combined specialty programs)

61.2404 Consultation-liaison psychiatry fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis and treatment of psychiatric disorders and symptoms in complex medically ill patients. These programs include instruction in the treatment of patients with acute or chronic medical, neurological, obstetrical, or surgical illness in which psychiatric illness is affecting their medical care and/or quality of life, and patients who have a psychiatric disorder that is the direct consequence of a primary medical condition, a somatoform disorder, or psychological factors affecting a general medical condition. Requires prior completion of a residency program in psychiatry.

Illustrative example(s)

- consultation-liaison psychiatry - fellowship
- consultative psychiatry - fellowship
- liaison psychiatry - fellowship
- psychosomatic medicine - fellowship

Exclusion(s)

- psychiatry - residency (See 61.2401-Psychiatry residency programs)
- somatic bodywork (See 51.3503-Somatic bodywork)

61.2405 Forensic psychiatry fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians to evaluate individuals involved with the legal system and provide specialized treatment to those incarcerated in jails, prisons, penitentiaries, and forensic psychiatric hospitals. These programs include instruction in the interrelationships between psychiatry and civil, criminal, and administrative law. Requires prior completion of a residency program in psychiatry.

Illustrative example(s)

- forensic psychiatry - fellowship

Exclusion(s)

- psychiatry - residency (See 61.2401-Psychiatry residency programs)

61.2406 Geriatric psychiatry fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the prevention, evaluation, diagnosis, and treatment of mental and emotional disorders in the elderly, and to improve the psychiatric care of the elderly both in health and in disease. Requires prior completion of a residency program in psychiatry.

Illustrative example(s)

- geriatric psychiatry - fellowship

Exclusion(s)

- psychiatry - residency (See 61.2401-Psychiatry residency programs)

61.2499 Psychiatry residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Psychiatry residency/fellowship programs.

Illustrative example(s)

- other psychiatry fellowship programs
- other psychiatry residency programs

61.25 Radiation oncology residency/fellowship programs

This subseries comprises instructional program classes 61.2501 to 61.2599.

61.2501 Radiation oncology residency programs

This instructional program class comprises any residency training program that prepares physicians in the use of ionizing radiation to treat patients with cancer and other diseases. These programs include instruction in treatment planning, instrument design and operation, radiation physics and radiobiology. One of two general certificates in the area of radiology.

Illustrative example(s)

- radiation oncology - residency

Exclusion(s)

- diagnostic radiology - residency (See 61.2601-Diagnostic radiology residency programs)
- oncology - fellowship (See 61.0813-Medical oncology fellowship programs)

61.2599 Radiation oncology residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Radiation oncology residency/fellowship programs.

Illustrative example(s)

- other radiation oncology fellowship programs
- other radiation oncology residency programs

61.26 Radiology residency/fellowship programs

This subseries comprises instructional program classes 61.2601 to 61.2699.

61.2601 Diagnostic radiology residency programs

This instructional program class comprises any residency training program that prepares physicians to utilize x-ray, ionizing radiation, radionuclides, ultrasound, electromagnetic radiation, and image-guided intervention to diagnose and treat disease. One of two general certificates in the area of radiology.

Illustrative example(s)

- diagnostic radiology - residency

Exclusion(s)

- diagnostic radiologic physics - residency (See 61.2604-Diagnostic radiologic physics residency programs)
- neuroradiology - fellowship (See 61.2607-Neuroradiology fellowship programs)
- oral and maxillofacial radiology - residency (See 60.0109-Oral and maxillofacial radiology residency programs)
- pediatric radiology - fellowship (See 61.2609-Pediatric radiology fellowship programs)
- radiologic physics - residency (See 61.2610-Radiologic physics residency programs)
- vascular and interventional radiology - fellowship (See 61.2612-Vascular and interventional radiology fellowship programs)

61.2602 Integrated interventional radiology residency programs

This instructional program class comprises any fellowship training program that prepares physicians in image-guided therapies, using fluoroscopy, digital radiography, computed tomography, sonography, and magnetic resonance imaging, to guide small devices inserted into the body through very small openings. These programs include instruction in angioplasty, stent placement, thrombolysis, embolization, biliary and genitourinary drainages, and abscess drainages. Does NOT require prior completion of a residency program in diagnostic radiology.

Illustrative example(s)

- integrated interventional radiology - residency

Exclusion(s)

- vascular and interventional radiology - fellowship (See 61.2612-Vascular and interventional radiology fellowship programs)

61.2603 Abdominal radiology fellowship programs

This instructional program class comprises any fellowship training program that prepares diagnostic radiologists in the diagnosis and treatment of disorders of the abdomen and pelvis in adults and children. Requires prior completion of a residency program in diagnostic or interventional radiology.

Illustrative example(s)

- abdominal radiology - fellowship

61.2604 Diagnostic radiologic physics residency programs

This instructional program class comprises any residency training program that prepares physicians in the diagnostic applications of x-rays, gamma rays from sealed sources, ultrasonic radiation, and magnetic resonance; and in the use of equipment associated with their production and use, including radiation safety. One of the three subspecialties available to residents in radiologic physics who must select one or more subspecialty areas.

Illustrative example(s)

- diagnostic radiologic physics - residency

Exclusion(s)

- diagnostic radiology - residency (See 61.2601-Diagnostic radiology residency programs)
- radiologic physics - residency (See 61.2610-Radiologic physics residency programs)
- therapeutic radiologic physics - residency (See 61.2611-Therapeutic radiologic physics residency programs)

61.2605 Medical nuclear physics residency programs

This instructional program class comprises any residency training program that prepares physicians in the therapeutic and diagnostic applications of radionuclides (except those used in sealed sources for therapeutic purposes); and in the use of equipment associated with their production and use, including radiation safety. One

of the three subspecialties available to residents in radiologic physics who must select one or more subspecialty areas.

Illustrative example(s)

- medical nuclear physics - residency

Exclusion(s)

- nuclear medicine - residency (See 61.1201-Nuclear medicine residency programs)
- nuclear physics (See 40.0806-Nuclear physics)
- radiologic physics - residency (See 61.2610-Radiologic physics residency programs)

61.2606 Musculoskeletal radiology fellowship programs

This instructional program class comprises any fellowship training program that prepares diagnostic radiologists in the diagnosis and treatment of disorders or injuries of the joints, bones, muscles, and spine in adults and children. Requires prior completion of a residency program in diagnostic or interventional radiology.

Illustrative example(s)

- musculoskeletal radiology - fellowship

61.2607 Neuroradiology fellowship programs

This instructional program class comprises any fellowship training program that prepares diagnostic radiologists in the diagnosis and treatment of disorders of the brain, spine, spinal cord, peripheral nerves, and head and neck in adults and children. Requires prior completion of a residency program in diagnostic radiology.

Illustrative example(s)

- neuroradiology - fellowship

Exclusion(s)

- diagnostic radiology - residency (See 61.2601-Diagnostic radiology residency programs)
- interventional radiology - fellowship (See 61.2612-Vascular and interventional radiology fellowship programs)

61.2608 Nuclear radiology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the imaging by external detection of radionuclides and/or biodistribution by external detection of radionuclides for diagnosis of disease. Requires prior partial completion of a residency program in diagnostic radiology.

Illustrative example(s)

- nuclear radiology - fellowship

Exclusion(s)

- nuclear medicine radiographer (See 51.0905-Nuclear medical technology/technologist)
- pediatric radiology - fellowship (See 61.2609-Pediatric radiology fellowship programs)
- vascular and interventional radiology - fellowship (See 61.2612-Vascular and interventional radiology fellowship programs)

61.2609 Pediatric radiology fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in all forms of diagnostic imaging as it pertains to the diagnosis and treatment of diseases in the newborn, infant, child, and adolescent. Requires prior completion of a residency program in diagnostic radiology.

Illustrative example(s)

- pediatric radiology - fellowship

Exclusion(s)

- diagnostic radiology - residency (See 61.2601-Diagnostic radiology residency programs)
- nuclear radiology - fellowship (See 61.2608-Nuclear radiology fellowship programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)
- radiology technologist (See 51.0911-Medical radiation technologist/radiographer)
- vascular and interventional radiology - fellowship (See 61.2612-Vascular and interventional radiology fellowship programs)
- veterinary radiology - residency (See 60.0313-Veterinary radiology residency programs)

61.2610 Radiologic physics residency programs

This instructional program class comprises any residency training program that prepares physicians in that branch of physics which includes the physical aspects of radiation therapy, radiologic diagnosis, and/or nuclear medicine. Radiologic physicists must specialize in at least one of the three subspecialty areas: therapeutic radiologic physics, diagnostic radiologic physics, and/or medical nuclear physics.

Illustrative example(s)

- radiologic physics - residency

Exclusion(s)

- diagnostic radiologic physics - residency (See 61.2604-Diagnostic radiologic physics residency programs)
- diagnostic radiology - residency (See 61.2601-Diagnostic radiology residency programs)
- medical nuclear physics - residency (See 61.2605-Medical nuclear physics residency programs)
- therapeutic radiologic physics - residency (See 61.2611-Therapeutic radiologic physics residency programs)

61.2611 Therapeutic radiologic physics residency programs

This instructional program class comprises any residency training program that prepares physicians to deal with the physical aspects of the therapeutic applications of x-rays, gamma rays, electron, and other charged particle beams, neutrons, and radiations from sealed radionuclide sources; and with the equipment associated with their production and use, including radiation safety. One of the three subspecialties available to residents in radiologic physics who must select one or more subspecialty areas.

Illustrative example(s)

- therapeutic radiologic physics - residency

Exclusion(s)

- diagnostic radiologic physics - residency (See 61.2604-Diagnostic radiologic physics residency programs)
- radiation therapist (See 51.0907-Radiation therapist/therapeutic radiographer)
- radiologic physics - residency (See 61.2610-Radiologic physics residency programs)
- radiologic technology (See 51.0911-Medical radiation technologist/radiographer)

61.2612 Vascular and interventional radiology fellowship programs

This instructional program class comprises any fellowship training program that prepares diagnostic radiologists with additional training in image-guided therapies, using fluoroscopy, digital radiography, computed tomography, sonography, and magnetic resonance imaging, to guide small devices inserted into the body through very small openings. These programs include instruction in angioplasty, stent placement, thrombolysis, embolization, biliary and genitourinary drainages, and abscess drainages. Requires prior completion of a residency program in diagnostic radiology.

Illustrative example(s)

- interventional radiology - fellowship
- vascular and interventional radiology - fellowship
- vascular radiology - fellowship

Exclusion(s)

- diagnostic radiology - residency (See 61.2601-Diagnostic radiology residency programs)
- integrated interventional radiology - residency (See 61.2602-Integrated interventional radiology residency programs)
- interventional cardiology - fellowship (See 61.0811-Interventional cardiology fellowship programs)
- vascular neurology - fellowship (See 61.1107-Vascular neurology fellowship programs)
- vascular surgery - fellowship (See 61.2708-Vascular surgery fellowship programs)

61.2699 Radiology residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Radiology residency/fellowship programs.

Illustrative example(s)

- other radiology fellowship programs
- other radiology residency programs

61.27 Surgery residency/fellowship programs

This subseries comprises instructional program classes 61.2701 to 61.2799.

61.2701 General surgery residency programs

This instructional program class comprises any residency training program that prepares physicians in the care and treatment of diseases and disorders via invasive procedures and the etiology, pathogenesis, diagnosis and management of physical disorders. These programs include instruction in clinical and operative skills, pre-operative and postoperative care, trauma management and endoscopic techniques.

Illustrative example(s)

- general surgery - residency

Exclusion(s)

- congenital cardiac surgery - fellowship (See 61.2704-Congenital cardiac surgery fellowship programs)
- critical care surgery - fellowship (See 61.2706-Surgical critical care fellowship programs)
- neurological surgery/neurosurgery - residency (See 61.1001-Neurological surgery residency programs)
- orthopedics/orthopedic surgery - residency (See 61.1501-Orthopedic surgery residency programs)
- pediatric surgery - fellowship (See 61.2705-Pediatric surgery fellowship programs)
- plastic surgery - residency (See 61.2101-Plastic surgery residency programs)
- surgery of the hand - fellowship (See 61.0214-Surgery of the hand fellowship programs)
- thoracic surgery - fellowship (See 61.2707-Thoracic surgery fellowship programs)
- vascular surgery - fellowship (See 61.2708-Vascular surgery fellowship programs)

61.2702 Colon and rectal surgery residency programs

This instructional program class comprises any residency training program that prepares physicians in the surgical care of patients with anorectal and colonic diseases. These programs include instruction in diagnostic and therapeutic colonoscopy. Requires prior or concurrent completion of a residency program in general surgery.

Illustrative example(s)

- colon and rectal surgery - residency

61.2703 Complex general surgical oncology fellowship programs

This instructional program class comprises any fellowship training program that prepares surgeons in the management of patients with difficult, rare or complex cancer presentations. These programs include instruction in clinical evaluation, surgical management, and adjuvant therapy. Requires prior completion of a residency program in general surgery.

Illustrative example(s)

- complex general surgical oncology - fellowship

61.2704 Congenital cardiac surgery fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the operative treatment of structural abnormalities involving the heart and major blood vessels, including defects resulting from congenital malformations as well as defects acquired in infants and children. These programs include instruction in the care of patients from the fetus to the adult. Requires prior completion of a residency or fellowship program in thoracic surgery.

Illustrative example(s)

- congenital cardiac surgery - fellowship

Exclusion(s)

- cardiology - fellowship (See 61.0804-Cardiovascular disease fellowship programs)
- general surgery - residency (See 61.2701-General surgery residency programs)
- interventional cardiology - fellowship (See 61.0811-Interventional cardiology fellowship programs)
- pediatric cardiology - fellowship (See 61.1906-Pediatric cardiology fellowship programs)
- pediatric surgery - fellowship (See 61.2705-Pediatric surgery fellowship programs)

61.2705 Pediatric surgery fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the diagnosis, evaluation and surgical treatment of diseases, disorders and trauma in infants and children. Requires prior completion of a residency program in general surgery.

Illustrative example(s)

- pediatric surgery - fellowship

Exclusion(s)

- congenital cardiac surgery - fellowship (See 61.2704-Congenital cardiac surgery fellowship programs)
- general surgery - residency (See 61.2701-General surgery residency programs)
- pediatrics - residency (See 61.1901-Pediatrics residency programs)

61.2706 Surgical critical care fellowship programs

This instructional program class comprises any fellowship training program that prepares surgeons in the diagnosis, treatment, and support of critically ill and injured patients, particularly trauma victims and patients with multiple organ dysfunction. Requires prior completion of a residency program in general surgery.

Illustrative example(s)

- critical care surgery - fellowship
- surgical critical care - fellowship

Exclusion(s)

- critical care medicine - fellowship (See 61.0202-Critical care medicine fellowship programs)
- general surgery - residency (See 61.2701-General surgery residency programs)
- pediatric critical care medicine - fellowship (See 61.1907-Pediatric critical care medicine fellowship programs)

61.2707 Thoracic surgery fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the evaluation and surgical treatment of pulmonary, esophageal, mediastinal, chest wall, diaphragmatic and cardiovascular disorders. These programs include instruction in bronchoscopy and esophagoscope. Requires prior or concurrent completion of a residency program in general surgery.

Illustrative example(s)

- thoracic surgery - fellowship

61.2708 Vascular surgery fellowship programs

This instructional program class comprises any fellowship training program that prepares physicians in the surgical treatment of diseases and disorders of the arterial, venous and lymphatic circulatory systems and of the heart and thoracic aorta. Requires prior or concurrent completion of a residency program in general surgery.

Illustrative example(s)

- vascular surgery - fellowship

Exclusion(s)

- vascular and interventional radiology - fellowship (See 61.2612-Vascular and interventional radiology fellowship programs)
- vascular neurology - fellowship (See 61.1107-Vascular neurology fellowship programs)

61.2799 Surgery residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Surgery residency/fellowship programs.

Illustrative example(s)

- other surgery fellowship programs
- other surgery residency programs

61.28 Urology residency/fellowship programs

This subseries comprises instructional program classes 61.2801 to 61.2899.

61.2801 Urology residency programs

This instructional program class comprises any residency training program that prepares physicians to manage congenital and acquired conditions of the genitourinary system, the adrenal gland, and other contiguous structures throughout the lifespan and which may be benign or malignant. This specialist is skilled in medical and open surgical therapy of these conditions, as well as endoscopic, percutaneous, and other minimally invasive methods.

Illustrative example(s)

- urology - residency

61.2802 Pediatric urology fellowship programs

This instructional program class comprises any fellowship training program that prepares individuals in the study, prevention, and management of congenital, childhood-acquired, and overlapping adolescent anomalies of the genitourinary tract. These programs include instruction in problems, diseases, tumours, and traumas of the urologic system. Requires prior completion of a residency program in urology.

Illustrative example(s)

- pediatric urology - fellowship

61.2899 Urology residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Urology residency/fellowship programs.

Illustrative example(s)

- other urology fellowship programs

- other urology residency programs

61.99 Medical residency/fellowship programs, other

This subseries comprises instructional program class 61.9999.

61.9999 Medical residency/fellowship programs, other

This instructional program class comprises any program not listed above that relates to Medical residency/fellowship programs.

Illustrative example(s)

- other medical fellowship programs
- other medical residency programs

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| 52.0408 | administrative clerk | 60.0704 | adult nurse practitioner |
| 22.0299 | administrative law (graduate level) | 42.9999 | adult psychology |
| 52.0201 | administrative management | 61.1501 | adult reconstructive orthopedics (orthopedic surgery) - residency |

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| 53.0105 | adult secondary school diploma | 15.0801 | aeronautical manufacturing |
| 13.1201 | adult teacher education | 15.0801 | aeronautical technician |
| 13.9999 | adult, community and higher education | 15.0801 | aeronautical technology |
| 60.0704 | adult/gerontology acute care nurse practitioner - fellowship | 49.0101 | aeronautics |
| 60.0704 | adult/gerontology acute care nurse practitioner - residency | 40.0403 | aeronomy |
| 60.0705 | adult/gerontology critical care nurse practitioner - fellowship | 36.0202 | aeroplane pilot (private) (not for credit) |
| 60.0705 | adult/gerontology critical care nurse practitioner - residency | 36.0202 | aeroplane pilot licence (private) (not for credit) |
| 12.0414 | advanced aesthetician | 15.0801 | aerospace engineering technician |
| 04.0202 | advanced architectural design | 15.0801 | aerospace engineering technology |
| 36.0207 | advanced drone pilot certificate (not for credit) | 14.0201 | aerospace engineering |
| 49.0109 | advanced drone pilot certificate | 15.0801 | aerospace manufacturing |
| 51.0502 | advanced education in general dentistry program | 61.2302 | aerospace medicine - residency |
| 12.0414 | advanced esthetician | 14.0201 | aerospace navigation |
| 43.0201 | advanced fire prevention technologies | 26.0912 | aerospace physiology and medicine |
| 51.3824 | advanced forensic nursing | 26.0912 | aerospace physiology |
| 51.0502 | advanced general dentistry | 15.0801 | aerospace technician |
| 13.0501 | advanced learning technologies | 15.0801 | aerospace technology |
| 22.0201 | advanced legal studies, general (graduate level) | 12.0409 | aesthetics |
| 51.3824 | advanced practice forensic nursing | 05.0201 | African American studies |
| 51.2399 | adventure based counselling | 05.0201 | African Canadian studies |
| 03.0207 | adventure tourism | 54.0199 | African history |
| 09.0999 | advertising and marketing communications management | 30.4001 | African languages and economics |
| 09.0900 | advertising and public relations | 16.0201 | African languages and literature |
| 50.0402 | advertising art | 16.0201 | African languages |
| 09.0903 | advertising copywriting | 16.0201 | African linguistics |
| 50.0402 | advertising design | 16.0201 | African literature |
| 50.0406 | advertising photography | 05.0101 | African studies |
| 52.1909 | advertising sales | 05.0201 | African-American studies |
| 09.0903 | advertising | 05.0201 | African-Canadian studies |
| 51.0502 | AEGD | 16.0599 | Afrikaans |
| 47.0608 | aero engine technician | 05.0201 | Afro-American studies |
| 31.0507 | aerobics instructor | 05.0201 | Afro-Canadian studies |
| 15.0801 | aeronautical engineering technician | 01.0102 | agribusiness operations |
| 15.0801 | aeronautical engineering technology | 01.0102 | agribusiness |
| 14.0201 | aeronautical engineering | 01.0801 | agricultural and extension education services |
| 15.0801 | aeronautical manufacturing technology | 22.0214 | agricultural and food law (graduate level) |
| | | 01.9999 | agricultural biology |
| | | 01.0101 | agricultural business and management |
| | | 01.0101 | agricultural business management |
| | | 01.0102 | agricultural business operations |
| | | 01.0106 | agricultural business technology |

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| 01.0101 | agricultural business | 01.0000 | agriculture |
| 01.9999 | agricultural chemistry | 01.1002 | agrifood technology |
| 01.0802 | agricultural communications | 01.0308 | agroecology |
| 01.0801 | agricultural consulting services | 01.0103 | agroeconomics |
| 01.0103 | agricultural economics | 01.1201 | agrology |
| 15.9999 | agricultural engineering technician | 01.1102 | agronomy and crop science |
| 15.9999 | agricultural engineering technology | 16.0399 | Ainu |
| 14.0301 | agricultural engineering | 15.0501 | air conditioning and heating technician |
| 01.0205 | agricultural equipment mechanic | 15.0501 | air conditioning and heating technology |
| 01.0205 | agricultural equipment technician | 15.0501 | air conditioning and refrigeration engineering technician |
| 01.0801 | agricultural extension | 15.0501 | air conditioning and refrigeration technician |
| 01.0199 | agricultural finance | 15.0501 | air conditioning and refrigeration technology |
| 01.0102 | agricultural food business management | 15.0501 | air conditioning technology |
| 01.0207 | agricultural irrigation | 15.0501 | air conditioning, heating and refrigeration technician |
| 01.0802 | agricultural journalism | 15.0501 | air conditioning, heating and refrigeration technology |
| 22.0214 | agricultural law (graduate level) | 15.0501 | air conditioning, heating and refrigeration technology |
| 01.0204 | agricultural machinery operator | 49.0105 | air controller |
| 01.0205 | agricultural machinery technician | 54.0108 | air force history |
| 01.0101 | agricultural management | 49.0106 | air host/hostess |
| 01.0205 | agricultural mechanics | 52.0209 | air mobility |
| 01.0201 | agricultural mechanization | 49.0102 | air navigator |
| 01.9999 | agricultural microbiology | 49.0105 | air traffic control |
| 01.1104 | agricultural plant breeding | 49.0105 | air traffic controller |
| 01.0204 | agricultural power machinery operation | 49.0101 | air transportation |
| 01.0301 | agricultural production management | 14.0201 | air-breathing propulsion |
| 01.0301 | agricultural production operations | 14.0201 | aircraft design engineering |
| 01.0301 | agricultural production | 47.0609 | aircraft electronics service technician |
| 01.0401 | agricultural products processing | 47.0609 | aircraft electronics |
| 01.0000 | agricultural science | 47.0608 | aircraft engine mechanic |
| 01.1201 | agricultural soils | 47.0608 | aircraft engine technician |
| 01.0105 | agricultural supplies retailing and wholesaling | 14.0201 | aircraft engineering |
| 01.0105 | agricultural supplies sales | 47.0607 | aircraft maintenance engineer technician |
| 01.0102 | agricultural systems management | 47.0607 | aircraft maintenance engineer |
| 13.1301 | agricultural teacher education | 47.0607 | aircraft maintenance journeyman/ journeywoman |
| 13.1301 | agricultural teacher | 47.0607 | aircraft maintenance journeyperson |
| 01.0000 | agricultural technology | 47.0607 | aircraft maintenance technician |
| 22.0214 | agriculture and food law (graduate level) | 47.0607 | aircraft mechanic |
| 13.1301 | agriculture education | 36.0202 | aircraft pilot (private) (not for credit) |
| 22.0214 | agriculture law (graduate level) | 47.0608 | aircraft power plant mechanic |
| 01.1105 | agriculture plant protection | 47.0609 | aircraft radar technician |
| 01.1201 | agriculture soil science | | |
| 13.1301 | agriculture teaching | | |

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| 47.0607 | aircraft sheet metal mechanics | 51.0810 | ambulance attendant |
| 47.0607 | aircraft structural repair technician | 51.0810 | ambulance technician |
| 47.0607 | aircraft structural technician | 60.0803 | ambulatory care pharmacy - fellowship |
| 47.0607 | airframe mechanic | 60.0803 | ambulatory care pharmacy - residency |
| 49.0104 | airline and flight operations | 33.0102 | American citizenship education (not for credit) |
| 49.0102 | airline pilot | 05.0102 | American civilization |
| 49.0199 | airline ticket agent | 22.0217 | American criminal law (graduate level) |
| 36.0202 | airplane pilot (private) (not for credit) | 45.1002 | American government and politics |
| 36.0202 | airplane pilot licence (private) (not for credit) | 54.0102 | American history |
| 49.0102 | airplane pilot | 22.0203 | American justice studies (graduate level) |
| 49.0104 | airport management | 22.0101 | American law (except graduate level) |
| 49.0104 | airport operations | 22.0203 | American law and jurisprudence studies (graduate level) |
| 14.0201 | airship engineering | 23.1402 | American literature |
| 16.1103 | Akkadian | 45.1002 | American politics |
| 47.0110 | alarm and security technician | 16.1603 | American Sign Language interpreting |
| 47.0110 | alarm installation | 16.1601 | American Sign Language |
| 16.0404 | Albanian language and literature | 05.0102 | American studies |
| 16.0404 | Albanian language | 60.0799 | anaesthesia nurse practitioner |
| 16.0404 | Albanian literature | 51.0809 | anaesthetist assistant |
| 16.0404 | Albanian | 27.0103 | analysis and functional analysis |
| 16.1001 | Aleut | 41.0301 | analytical chemistry technician |
| 16.1001 | Aleutian language | 41.0301 | analytical chemistry technology |
| 27.0102 | algebra and number theory | 40.0502 | analytical chemistry |
| 27.0102 | algebra | 30.7101 | analytics |
| 16.1001 | Algonquian languages | 61.1802 | anatomic pathology - residency |
| 47.0604 | alignment and brakes technician | 61.1801 | anatomic pathology and clinical pathology - residency |
| 47.0604 | alignment mechanic | 61.1802 | anatomical pathology - residency |
| 61.0301 | allergies and immunology - fellowship | 26.0403 | anatomy |
| 61.0301 | allergy and immunology - fellowship | 30.2201 | ancient civilization |
| 51.1201 | allopathic medicine | 30.2202 | ancient Greek and Roman civilization |
| 51.1201 | allopathic physician | 30.2202 | ancient Greek and Roman studies |
| 16.1599 | Altaic | 16.1202 | ancient Greek language and literature |
| 51.3300 | alternative and complementary medicine and medical systems | 16.1202 | ancient Greek language |
| 30.2801 | alternative dispute resolution | 16.1202 | ancient Greek literature |
| 14.4801 | alternative energy engineering | 16.1202 | ancient Greek |
| 15.1799 | alternative energy technician | 54.0199 | ancient history |
| 15.1799 | alternative energy technology | 30.2202 | ancient Mediterranean and Near Eastern studies |
| 47.0614 | alternative fuel powered vehicle repair | 30.2202 | ancient Mediterranean studies |
| 47.0614 | alternative fuel powered vehicle technician | 16.1103 | Ancient Near Eastern languages and literature |
| 51.3300 | alternative medicine | | |
| 36.0120 | amateur beekeeping (not for credit) | | |

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| 30.2202 | ancient Near Eastern studies | 01.0310 | apiculture |
| 30.2201 | ancient studies | 05.0135 | Appalachian studies |
| 60.0799 | anesthesia nurse practitioner | 52.1904 | apparel and accessories marketing operations |
| 51.0809 | anesthesiologist assistant | 19.0902 | apparel and textile manufacturing |
| 61.0401 | anesthesiology - residency | 19.0905 | apparel and textile marketing management |
| 38.0203 | Anglican studies | 19.0901 | apparel and textiles |
| 01.0599 | animal attendant | 50.0407 | apparel design |
| 26.0708 | animal behaviour | 19.0905 | apparel marketing management |
| 26.0701 | animal biology | 19.0902 | apparel production management |
| 01.0902 | animal breeding | 47.0106 | appliance installation and repair |
| 01.0599 | animal care aide | 47.0106 | appliance repair |
| 01.0599 | animal care assistant | 47.0106 | appliance service technician |
| 01.0599 | animal care attendant | 47.0106 | appliance technician |
| 01.8301 | animal care technician | 11.0205 | application development for mobile devices |
| 01.8301 | animal care technologist | 27.0304 | applied and computational mathematics |
| 01.8301 | animal care technology | 50.0401 | applied arts |
| 01.0599 | animal care | 42.2814 | applied behaviour analysis - autism |
| 26.1301 | animal ecology | 42.2814 | applied behaviour analysis |
| 26.0804 | animal genetics | 42.2814 | applied behaviour intervention |
| 01.0504 | animal grooming | 42.2814 | applied behavioural science technician |
| 01.0599 | animal health care assistant | 42.2814 | applied behavioural science technology |
| 01.0599 | animal health care | 42.2814 | applied behavioural sciences |
| 01.8301 | animal health technician | 26.0101 | applied biology |
| 01.8301 | animal health technologist | 52.0407 | applied business technology |
| 01.8301 | animal health technology | 14.4401 | applied chemistry |
| 01.0903 | animal health | 19.0706 | applied child studies |
| 01.0302 | animal husbandry | 09.0900 | applied communication |
| 01.0904 | animal nutrition | 15.1202 | applied computer technology |
| 26.0707 | animal physiology | 51.1599 | applied counselling |
| 01.0302 | animal production technology | 45.0401 | applied criminology |
| 01.0302 | animal production | 45.0502 | applied demography |
| 01.0901 | animal sciences | 45.0602 | applied economics |
| 01.0505 | animal training | 15.0001 | applied engineering technician |
| 01.9999 | animal welfare science | 15.0001 | applied engineering technology |
| 01.9999 | animal welfare | 14.0103 | applied engineering |
| 51.2313 | animal-assisted therapy | 38.0104 | applied ethics |
| 45.0201 | anthropological sciences | 45.0701 | applied geography |
| 45.1501 | anthropology and geography | 54.0105 | applied history |
| 30.4701 | anthropology and linguistics | 01.0601 | applied horticulture |
| 13.1317 | anthropology education | 19.0504 | applied human nutrition |
| 45.0201 | anthropology | 19.0101 | applied human sciences |
| 30.3401 | anthrozoology | | |
| 01.0310 | apiary management | | |

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| 16.0101 | applied language studies | 04.0901 | architectural design and technology |
| 16.0105 | applied linguistics | 04.0901 | architectural design technician |
| 30.4901 | applied math and economics | 04.0901 | architectural design technology |
| 30.4901 | applied mathematics and economics | 04.0202 | architectural design |
| 27.0301 | applied mathematics | 15.1303 | architectural drafting |
| 14.1101 | applied mechanics | 15.0101 | architectural engineering technician |
| 26.0599 | applied microbiology | 15.0101 | architectural engineering technologist |
| 30.1401 | applied museum studies | 15.0101 | architectural engineering technology |
| 50.0406 | applied photography | 14.0401 | architectural engineering |
| 14.1201 | applied physics | 46.0406 | architectural glass and metal mechanic |
| 42.2813 | applied psychology | 04.0899 | architectural history and conservation |
| 42.2813 | applied social psychology | 04.0801 | architectural history and criticism |
| 45.1102 | applied sociology | 04.0801 | architectural history and theory |
| 31.0599 | applied sport science and coaching | 04.0801 | architectural history |
| 27.0601 | applied statistics | 04.0201 | architectural science |
| 30.3301 | applied sustainable development | 48.0506 | architectural sheet metal worker |
| 01.0303 | aquaculture technician | 04.9999 | architectural studies in conservation and sustainability |
| 01.0303 | aquaculture technology | 04.0803 | architectural studies |
| 01.0303 | aquaculture | 04.0901 | architectural technician |
| 26.1304 | aquatic biology | 04.0901 | architectural technologist |
| 26.1304 | aquatic ecology | 04.0901 | architectural technology and design |
| 05.0108 | Arab studies | 04.0901 | architectural technology |
| 16.1101 | Arabic language, literature and linguistics | 04.0901 | architecture design and technology |
| 16.1101 | Arabic language | 04.0402 | architecture of healthcare environments |
| 16.1101 | Arabic literature | 04.0201 | architecture |
| 16.1101 | Arabic | 25.0103 | archival administration and records management |
| 16.1103 | Aramaic | 25.0103 | archival administration |
| 01.0699 | arboriculture | 25.0199 | archival and library science |
| 01.0699 | arborist | 25.0103 | archival management |
| 48.0508 | arc welding | 25.0103 | archival studies |
| 43.0123 | archaeological resources protection | 25.0301 | archival technician |
| 45.0301 | archaeology | 25.0301 | archives assistant |
| 45.0301 | archaeometry | 25.0103 | archives records management |
| 43.0123 | archeological resources protection | 25.0301 | archives technician |
| 45.0301 | archeology | 25.0103 | archives |
| 04.0902 | architectural and building sciences | 25.0103 | archivist |
| 04.0902 | architectural and building technology | 05.0136 | Arctic and Northern studies |
| 15.1399 | architectural and civil drafting | 05.0136 | Arctic studies |
| 15.1399 | architectural and electrical drafting | 05.9999 | area and group studies |
| 15.1399 | architectural and industrial drafting | 31.0301 | arena management |
| 15.1303 | architectural CAD technology | 16.1801 | Armenian language and literature |
| 04.0802 | architectural conservation | | |
| 04.0901 | architectural construction technology | | |

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| 16.1801 | Armenian language, literature and linguistics | 51.3206 | arts in medicine |
| 16.1801 | Armenian language | 50.1001 | arts management |
| 16.1801 | Armenian literature | 46.0414 | asbestos insulator |
| 16.1801 | Armenian | 46.0414 | asbestos worker |
| 54.0108 | army history | 05.0199 | Asia Pacific studies |
| 29.0501 | army technical warrant officer program | 05.0206 | Asian American studies |
| 51.3701 | aromatherapist | 05.0103 | Asian Area studies |
| 51.3701 | aromatherapy | 51.3502 | asian bodywork therapy |
| 01.0304 | aromatic and medicinal plant production | 05.0206 | Asian Canadian studies |
| 43.0205 | arson investigation | 05.0103 | Asian civilization |
| 43.0205 | arson prevention and investigation | 54.0106 | Asian history |
| 43.0205 | arson prevention | 38.0299 | Asian religions |
| 36.0110 | art (not for credit) | 05.0103 | Asian studies |
| 50.1101 | art and social practice | 16.1603 | ASL interpreting |
| 50.0703 | art conservation | 16.1601 | ASL |
| 13.1302 | art education | 16.0799 | Assamese |
| 50.0703 | art history and criticism | 52.0807 | asset and wealth management |
| 13.1302 | art history education | 12.0505 | assistant cook |
| 50.0703 | art history | 41.0000 | assistant science lab technician |
| 52.0502 | art of grantsmanship | 41.0000 | assistant science laboratory technician |
| 52.0502 | art of obtaining grants | 51.0718 | assisted living administration |
| 50.0703 | art restoration | 51.0718 | assisted living management |
| 50.0701 | art studies | 51.2312 | assistive technology and rehabilitation engineering |
| 13.1302 | art teacher education | 51.2312 | assistive/augmentative technology and rehabilitation engineering |
| 13.1302 | art teacher | 52.0206 | association management |
| 13.1302 | art teaching | 16.1103 | Assyrian |
| 51.2301 | art therapist | 30.2299 | assyriology |
| 51.2301 | art therapy | 30.0101 | astrobiology |
| 01.0902 | artificial insemination | 14.0202 | astronautical engineering |
| 11.0102 | artificial intelligence | 40.1101 | astronomy and physics |
| 01.1099 | artisan distilling | 40.0201 | astronomy |
| 50.1001 | artist management | 40.0202 | astrophysics |
| 50.0799 | artistic glass making | 31.0501 | athletic coach |
| 12.0406 | artistic makeup | 51.0913 | athletic therapist |
| 50.0708 | artistic painting | 51.0913 | athletic therapy |
| 12.0411 | artistic tattooing | 51.0913 | athletic trainer |
| 50.1001 | arts administration | 51.0913 | athletic training |
| 50.0201 | arts and crafts | 05.0122 | Atlantic Canada studies |
| 09.0406 | arts and entertainment journalism | 40.0807 | atmospheric and space optics |
| 22.0215 | arts and entertainment law (graduate level) | 40.0402 | atmospheric chemistry and climatology |
| 24.0102 | arts and science | 40.0402 | atmospheric chemistry |
| 51.3206 | arts in health | | |

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| 40.0403 | atmospheric dynamics | 47.0603 | auto body work |
| 40.0403 | atmospheric physics and dynamics | 47.0603 | auto body worker |
| 40.0403 | atmospheric physics | 47.0603 | auto body |
| 40.0401 | atmospheric sciences and meteorology | 46.0406 | auto glass technician |
| 40.0401 | atmospheric sciences | 13.1320 | auto mechanic teacher |
| 40.0802 | atomic physics | 47.0604 | auto mechanic |
| 16.1202 | Attic Greek | 52.1907 | auto parts sales |
| 52.1901 | auctioneering | 47.0604 | auto repair |
| 15.0307 | audio engineering and production | 47.0604 | auto service technician |
| 15.0307 | audio engineering technician | 48.0303 | auto upholstery |
| 15.0307 | audio engineering technology | 15.1302 | autoCAD drafting |
| 15.0307 | audio engineering | 15.1302 | autoCAD |
| 10.0203 | audio recording technology | 52.0302 | automated accounting |
| 10.0203 | audio technician | 15.0406 | automated engineering technician |
| 51.0204 | audiologist and speech language pathologist | 15.0406 | automated engineering technology |
| 51.0202 | audiologist | 14.3601 | automated manufacturing engineering |
| 51.0202 | audiology and hearing sciences | 15.0406 | automated systems electromechanics |
| 51.0204 | audiology and speech-language pathology | 15.0406 | automated systems engineering technology |
| 51.0202 | audiology | 15.0407 | automation and control engineering technology |
| 51.0899 | audiometric technician | 14.4201 | automation and control engineering |
| 10.0299 | audiovisual technician | 14.4201 | automation and robotics engineering |
| 10.0299 | audiovisual technology | 15.0407 | automation and telemechanics technology |
| 52.0303 | auditing | 14.4201 | automation and telemechanics |
| 51.2312 | augmentative technology and rehabilitation engineering | 15.0406 | automation engineer technician |
| 16.1401 | Australasian languages | 15.0406 | automation engineer technology |
| 05.0109 | Australasian studies | 15.0406 | automation engineering technician |
| 16.1401 | Australian aboriginal languages | 15.0406 | automation engineering technology |
| 16.1401 | Australian languages and literature | 14.4201 | automation engineering |
| 16.1401 | Australian languages | 36.0203 | automobile driver education (not for credit) |
| 05.0109 | Australian studies | 36.0203 | automobile driver training (not for credit) |
| 42.2814 | autism and behavioural science | 47.0604 | automobile mechanic |
| 42.2814 | autism and behavioural studies | 47.0604 | automobile mechanics technician |
| 42.2814 | autism and pervasive developmental disorders | 52.1907 | automobile sales |
| 42.2814 | autism spectrum disorders | 47.0603 | automotive collision repair technician |
| 47.0603 | auto body collision repair | 47.0605 | automotive diesel mechanics |
| 47.0603 | auto body mechanic | 47.0604 | automotive electrical repair |
| 47.0603 | auto body painting | 47.0604 | automotive electronics |
| 47.0603 | auto body refinisher | 15.0803 | automotive engineering technician |
| 47.0603 | auto body repair | 15.0803 | automotive engineering technology |
| 47.0603 | auto body technician | 14.9999 | automotive engineering |
| | | 47.0617 | automotive high performance mechanic |

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| 47.0617 | automotive high performance technician | 04.0803 | Bachelor of architectural studies |
| 47.0604 | automotive maintenance technician | 22.0101 | Bachelor of Civil Law (BCL) |
| 15.0803 | automotive manufacturing technology | 22.0101 | Bachelor of Law (LLB) |
| 52.1907 | automotive marketing | 22.0101 | Bachelor of law |
| 47.0604 | automotive mechanic | 22.0101 | Bachelor of Laws (LLB) |
| 47.0604 | automotive mechanics | 22.0101 | Bachelor of laws |
| 47.0603 | automotive painter | 49.0202 | backhoe operator |
| 47.0603 | automotive painting | 31.0601 | backpacking instructor |
| 47.0409 | automotive parts and light warehousing | 26.0503 | bacteriology |
| 47.0409 | automotive partsman/partswoman | 16.1402 | Bahasa Indonesian languages and literature |
| 47.0409 | automotive partsperson | 16.1402 | Bahasa Indonesian |
| 15.0803 | automotive product design technology | 22.0399 | bailiff |
| 47.0603 | automotive refinishing technician | 12.0501 | baker |
| 47.0604 | automotive repair | 12.0501 | bakery |
| 52.1907 | automotive sales | 12.0501 | baking and pastry arts |
| 52.0499 | automotive service advisor | 12.0580 | baking with cannabidiol (CBD) |
| 47.0604 | automotive service technician | 12.0580 | baking with cannabis |
| 47.0603 | automotive spray painting | 12.0580 | baking with marijuana |
| 47.0604 | automotive transmission repair | 12.0501 | baking |
| 10.0299 | av technician | 05.0116 | Balkan studies |
| 16.1599 | Avaric | 50.0302 | ballet dancer |
| 47.0609 | aviation electronics | 50.0302 | ballet dancing |
| 14.0201 | aviation engineering | 13.1324 | ballet teacher |
| 49.0104 | aviation flight management | 50.0302 | ballet |
| 49.0101 | aviation industry | 36.0202 | balloon pilot licence (not for credit) |
| 22.0223 | aviation law (graduate level) | 16.0401 | Baltic languages and literature |
| 49.0104 | aviation management | 16.0401 | Baltic languages |
| 49.0104 | aviation operations | 16.0401 | Baltic linguistics |
| 49.0101 | aviation | 16.0401 | Baltic literature |
| 14.0201 | avionics engineering | 05.0117 | Baltic studies |
| 47.0609 | avionics maintenance technician | 50.0906 | band conductor |
| 47.0609 | avionics technician | 43.0107 | band constable |
| 47.0609 | avionics technology | 50.0906 | bandmaster |
| 47.0609 | avionics | 52.0803 | bank teller |
| 51.3305 | Ayurveda | 52.0803 | banking and financial support services |
| 51.3305 | Ayurvedic medicine | 22.0205 | banking law (graduate level) |
| 16.1599 | Azeri | 22.0101 | bar admission course |
| B | | 12.0502 | bar management |
| 16.1103 | Babylonian | 12.0413 | barber instructor |
| 12.0602 | baccarat dealer | 12.0402 | barber |
| 04.0803 | Bachelor of architectural studies (BAS) | 12.0402 | barbering |
| | | 04.0201 | BArch |

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| 50.0914 | baritone (brass instrument) | 16.0704 | Bengali literature |
| 50.0908 | baritone (singer) | 16.0704 | Bengali |
| 12.0502 | barman/woman | 16.1199 | Berber languages |
| 12.0502 | bartender | 10.0201 | best boy |
| 12.0502 | bartending | 39.0201 | Bible studies |
| 16.1599 | Bashkir | 39.0201 | Bible study |
| 12.0409 | basic aesthetician | 39.0799 | Biblical counselling |
| 32.0110 | basic computer applications (not for credit) | 16.1202 | biblical Greek |
| 32.0110 | basic computer skills (not for credit) | 16.1103 | Biblical languages and literature |
| 36.0207 | basic drone pilot certificate (not for credit) | 16.1103 | Biblical languages |
| 49.0109 | basic drone pilot certificate | 16.1103 | Biblical literature |
| 12.0409 | basic esthetician | 39.0201 | Biblical studies |
| 32.0101 | basic skills, general (not for credit) | 47.0610 | bicycle mechanics |
| 16.9999 | Basque | 47.0610 | bicycle repair |
| 50.0916 | bass drum | 30.7101 | big data analytics |
| 50.0915 | bassoon | 30.7001 | big data |
| 16.1499 | Batak | 16.0799 | Bihari |
| 47.0699 | bearings mechanic | 13.0201 | bilingual and multilingual education |
| 12.0401 | beautician | 13.0201 | bilingual education |
| 12.0412 | beauty parlour management | 52.0401 | bilingual secretary |
| 12.0412 | beauty salon manager | 51.2212 | biobehavioural health |
| 01.0906 | beef management | 14.4301 | biochemical engineering |
| 01.0906 | beef production management | 26.0210 | biochemistry and molecular biology |
| 01.0302 | beef production | 13.1322 | biochemistry education |
| 36.0120 | beekeeping (not for credit) | 26.0202 | biochemistry |
| 01.0310 | beekeeping | 03.0210 | bioenergy and biofuels |
| 01.1003 | beer brewing operations | 03.0210 | bioenergy and sustainable technology |
| 01.1003 | beer brewing | 03.0210 | bioenergy resource development and management |
| 12.0599 | beer sommelier | 03.0210 | bioenergy resource development |
| 36.0203 | beginner driver education (not for credit) | 03.0210 | bioenergy resource management |
| 45.0602 | behavioural and experimental economics | 03.0210 | bioenergy science |
| 51.2212 | behavioural aspects of health | 03.0210 | bioenergy |
| 51.2212 | behavioural health | 15.0401 | bioengineering technology |
| 42.2814 | behavioural intervention | 14.4501 | bioengineering |
| 42.2706 | behavioural neuroscience | 03.0104 | bioenvironmental sciences |
| 42.2814 | behavioural science technician | 51.3201 | bioethics |
| 42.2814 | behavioural science technology | 01.1002 | bio-food technology |
| 30.1701 | behavioural science | 26.1103 | bioinformatics |
| 30.1701 | behavioural sciences | 14.4501 | biological and biosystems engineering |
| 16.0499 | Belarusian | 51.2004 | biological and pharmaceutical chemistry |
| 48.0701 | benchwork and joinery | 30.0101 | biological and physical sciences |
| 16.0704 | Bengali language and literature | 45.0202 | biological anthropology |
| 16.0704 | Bengali language | | |

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| 26.0202 | biological chemistry | 14.0301 | bioprocessing engineering |
| 14.4501 | biological engineering | 30.1001 | biopsychology |
| 26.1302 | biological oceanography | 14.0301 | bio-resource engineering |
| 30.1001 | biological psychology | 15.9999 | bio-resources engineering technician |
| 26.0101 | biological sciences | 26.0101 | bioscience |
| 26.1308 | biological systematics | 26.1311 | biostatistics and epidemiology |
| 14.4501 | biological systems engineering | 26.1102 | biostatistics |
| 41.0101 | biological technology | 14.4501 | biosystems engineering |
| 30.2701 | biology and society | 41.0101 | biotechnology lab technician |
| 13.1322 | biology education | 41.0101 | biotechnology laboratory technician |
| 41.0101 | biology lab technician | 41.0101 | biotechnology technician |
| 41.0101 | biology lab technology | 41.0101 | biotechnology technologist |
| 41.0101 | biology laboratory technician | 26.1201 | biotechnology |
| 41.0101 | biology laboratory technology | 34.0102 | birthing and parenting knowledge and skills (not for credit) |
| 13.1322 | biology teacher education | 16.1499 | Bisayan |
| 13.1322 | biology teacher | 05.0201 | Black American studies |
| 13.1322 | biology teaching | 05.0201 | Black Canadian studies |
| 41.0101 | biology technician | 05.0201 | Black studies |
| 26.0101 | biology | 12.0602 | blackjack dealer |
| 03.0210 | biomass energy conversion | 48.0599 | blacksmith |
| 03.0210 | biomass energy | 46.0505 | blaster |
| 14.4501 | biomass engineering | 46.0505 | blasting technician |
| 14.0501 | biomaterials engineering | 46.0505 | blasting |
| 26.1199 | biomathematics | 11.9999 | blockchain development |
| 14.9999 | biomechanical engineering | 51.1001 | blood bank technologist |
| 26.0913 | biomechanics | 51.1001 | blood bank technology specialist |
| 51.2703 | biomedical animation | 61.1804 | blood banking - fellowship |
| 51.2703 | biomedical communications | 61.1804 | blood banking medicine - fellowship |
| 15.0401 | biomedical electronics | 61.1804 | blood banking/transfusion medicine - fellowship |
| 15.0401 | biomedical engineering technician | 36.0103 | board, card and role-playing games (not for credit) |
| 15.0401 | biomedical engineering technology | 48.0704 | boat carpenter |
| 14.0501 | biomedical engineering | 36.0206 | boating education (not for credit) |
| 51.2706 | biomedical informatics | 36.0206 | boating licence exam preparation (not for credit) |
| 51.1005 | biomedical laboratory technologist | 36.0206 | boating safety course (not for credit) |
| 51.2205 | biomedical physics | 16.1499 | Bodo |
| 26.0102 | biomedical science | 43.0120 | bodyguard |
| 15.0401 | biomedical technician | 46.0414 | boiler and pipe insulator |
| 15.0401 | biomedical technology | 48.0801 | boilermaker |
| 26.1004 | biomedical toxicology | 48.0801 | boilermaking |
| 26.1101 | biometrics | 09.1001 | book and magazine publishing |
| 26.1101 | biometry | | |
| 26.0203 | biophysics | | |
| 14.0301 | bioprocess engineering | | |

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| 09.1001 | book publishing | 16.1301 | brittonic languages |
| 10.0399 | bookbinding | 10.0204 | broadcast captioning |
| 52.0302 | bookkeeper | 10.0202 | broadcast engineering technology |
| 52.0302 | bookkeeping | 09.0402 | broadcast journalism |
| 49.0206 | boom truck operator | 10.0202 | broadcast technology |
| 48.0304 | boot repair | 16.1301 | brythonic languages |
| 43.0199 | border guard | 51.2001 | BS Pharmacy |
| 43.0199 | border services | 51.2001 | BSc Pharmacy |
| 16.0408 | Bosnian language and literature | 01.0680 | bud trimmer |
| 16.0408 | Bosnian language | 38.0202 | Buddhism |
| 16.0408 | Bosnian literature | 38.0202 | Buddhist studies |
| 16.0408 | Bosnian | 52.1880 | budtender |
| 26.0301 | botany | 15.1001 | building construction engineering technology |
| 51.2001 | BPharm | 46.0415 | building construction technician |
| 49.0208 | brakeman/brakewoman | 46.0415 | building construction technology |
| 09.0903 | brand management | 15.1303 | building design and architecture CAD |
| 50.0914 | brass instruments | 15.1303 | building design CAD technology |
| 16.1301 | Breton | 15.1001 | building engineering technology |
| 52.0910 | brewery management | 46.0401 | building envelope technician |
| 52.0910 | brewery marketing | 15.1399 | building information modeling (BIM) |
| 01.1003 | brewery operations | 15.1399 | building information modeling |
| 01.1003 | brewery technician | 15.1399 | building information modelling (BIM) |
| 01.1003 | brewing and brewery operations | 15.1399 | building information modelling |
| 01.1099 | brewing and distilling | 46.0403 | building inspection technology |
| 01.1003 | brewing and malting science | 46.0403 | building inspection |
| 01.1003 | brewing and malting | 46.0403 | building inspector |
| 01.1003 | brewing operations management | 46.0401 | building maintenance |
| 01.1003 | brewing operations | 46.0415 | building renovation technician |
| 01.1003 | brewing science | 46.0415 | building restoration technician |
| 01.1003 | brewing technology | 04.0902 | building science |
| 01.1003 | brewmaster and brewery operations management | 46.0401 | building service technician |
| 01.1003 | brewmaster | 46.0412 | building site management |
| 52.0910 | brewpub management | 46.0412 | building site manager |
| 52.0910 | brewpub marketing | 16.0405 | Bulgarian language and literature |
| 46.0101 | brick and stone mason | 16.0405 | Bulgarian language |
| 46.0101 | brick masonry | 16.0405 | Bulgarian literature |
| 46.0101 | bricklayer | 16.0405 | Bulgarian |
| 46.0101 | bricklaying | 16.1403 | Burmese language and literature |
| 46.0101 | bricklaying-masonry | 16.1403 | Burmese language |
| 14.0803 | bridge engineering | 16.1403 | Burmese literature |
| 54.0103 | British history | 49.0205 | bus driver |
| 23.1404 | British literature | 49.0205 | bus driving instructor |

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| 49.0205 | bus driving | 52.1302 | business statistics |
| 47.0613 | bus mechanic | 52.0101 | business studies |
| 47.0613 | bus technician | 13.1303 | business teacher education |
| 49.0102 | bush pilot | 13.1303 | business teacher |
| 52.1401 | business administration - marketing | 52.0101 | business |
| 52.0201 | business administration | 12.0506 | butcher shop delicatessen |
| 30.7102 | business analytics | 12.0506 | butcher |
| 09.0405 | business and economic journalism | 12.0506 | butchering |
| 09.0405 | business and economic reporting | 12.0506 | butchery |
| 19.0201 | business and family and consumer sciences | 01.0306 | butter making |
| 13.1303 | business and innovation teacher education | 52.1802 | buyer |
| 43.0112 | business and organizational security management | 43.0199 | bylaw enforcement |
| 35.0103 | business and social skills (not for credit) | 30.2202 | Byzantine civilization |
| 11.0202 | business applications programming | 16.1202 | Byzantine Greek |
| 52.1006 | business coaching | | |
| 52.0501 | business communications | C | |
| 11.0202 | business computer programming | 48.0703 | cabinet making - joinery |
| 30.3901 | business economics and computer science | 48.0703 | cabinet making |
| 30.4901 | business economics and mathematics | 48.0703 | cabinetmaker |
| 52.0601 | business economics | 48.0703 | cabinetmaker-joiner |
| 13.1303 | business education | 48.0703 | cabinetmaking |
| 52.0701 | business entrepreneurship | 46.0303 | cable splicer |
| 47.0102 | business equipment repair | 47.0103 | cable telecommunications technician |
| 47.0102 | business equipment technician | 47.0103 | cable television service installation |
| 38.0104 | business ethics | 47.0103 | cable television technician |
| 52.0801 | business finance | 46.0303 | cableman/cablewoman |
| 52.1201 | business information management | 15.1302 | CAD drafting |
| 52.0407 | business information processing | 15.1302 | CAD technology |
| 52.1201 | business information systems | 52.0207 | call centre administration |
| 11.0103 | business information technology | 52.0207 | call centre management |
| 52.1701 | business insurance | 52.0411 | call centre service representative |
| 52.1301 | business intelligence | 52.0411 | call centre |
| 09.0405 | business journalism | 15.0613 | CAM |
| 22.0101 | business law (except graduate level) | 05.0206 | Cambodian American studies |
| 22.0205 | business law (graduate level) | 05.0206 | Cambodian Canadian studies |
| 47.0102 | business machine maintenance | 16.1405 | Cambodian language and literature |
| 47.0102 | business machine repair | 16.1405 | Cambodian language |
| 47.0102 | business machine technician | 16.1405 | Cambodian literature |
| 52.0201 | business management | 16.1405 | Cambodian |
| 52.0701 | business start-up | 10.0201 | camera operator |
| | | 10.0201 | cameraman/camerawoman |
| | | 12.0500 | camp cook |

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| 16.1103 | Canaanite | 01.0680 | cannabis cultivation |
| 22.0224 | Canadian Aboriginal Law (graduate level) | 01.0480 | cannabis curing |
| 52.1701 | Canadian Accredited Insurance Broker (CAIB) | 51.1580 | cannabis dependency counselling |
| 33.0105 | Canadian citizenship education (not for credit) | 52.1880 | cannabis dispensary manager |
| 22.0217 | Canadian criminal law (graduate level) | 52.1880 | cannabis dispensary salesclerk |
| 36.0121 | Canadian Firearms Safety Course (CFSC) (not for credit) | 01.0480 | cannabis drying |
| 28.0801 | Canadian forces command and staff college | 12.0580 | cannabis edible product |
| 28.0801 | Canadian forces staff school | 12.0580 | cannabis edibles baker |
| 45.1003 | Canadian government and politics | 12.0580 | cannabis edibles chef |
| 30.4501 | Canadian history and Indigenous languages | 12.0580 | cannabis edibles cook |
| 54.0107 | Canadian history | 12.0580 | cannabis edibles pastry chef |
| 22.0224 | Canadian Indigenous Law (graduate level) | 12.0580 | cannabis edibles pastry cook |
| 22.0204 | Canadian jurisprudence (graduate level) | 12.0580 | cannabis edibles |
| 22.0101 | Canadian law (except graduate level) | 51.9980 | cannabis education for health professionals |
| 22.0204 | Canadian law (graduate level) | 51.9980 | cannabis education for healthcare professionals |
| 22.0204 | Canadian legal studies (graduate level) | 01.0480 | cannabis extraction technician |
| 23.1403 | Canadian literature (in English) | 01.0680 | cannabis harvesting |
| 55.1403 | Canadian literature (in French) | 44.0580 | cannabis health policy analysis |
| 19.0709 | Canadian mothercraft | 44.0580 | cannabis health policy |
| 45.1003 | Canadian political science | 51.2280 | cannabis in community health |
| 45.1003 | Canadian political studies | 51.2280 | cannabis in public health education |
| 45.1003 | Canadian politics | 51.2280 | cannabis in public health |
| 52.0807 | Canadian securities | 51.9980 | cannabis information for health professionals |
| 45.0902 | Canadian security studies programme | 51.9980 | cannabis information for healthcare professionals |
| 05.0115 | Canadian studies | 01.0480 | cannabis inspection agent |
| 22.0224 | Canadian Tribal Law (graduate level) | 01.0480 | cannabis inspection |
| 26.0911 | cancer biology | 01.0480 | cannabis inspector |
| 51.0721 | cancer data management | 52.1980 | cannabis marketing and marketing operations |
| 51.0721 | cancer registry data management | 52.1980 | cannabis marketing operations |
| 51.0721 | cancer registry management | 52.1980 | cannabis marketing |
| 51.1580 | cannabis abuse counselling | 01.0480 | cannabis milling |
| 51.1580 | cannabis abuse intervention | 01.0480 | cannabis oil extraction |
| 51.1580 | cannabis abuse prevention | 01.0480 | cannabis packaging |
| 51.1580 | cannabis addiction counselling | 01.1180 | cannabis plant breeding research |
| 51.1580 | cannabis addiction prevention and treatment | 01.1180 | cannabis plant genetics and breeding |
| 52.1980 | cannabis branding | 01.1180 | cannabis plant science |
| 52.1880 | cannabis consultant | 44.0580 | cannabis policy analysis |
| 12.0580 | cannabis culinary arts | 44.0580 | cannabis policy |
| | | 01.0480 | cannabis processing and inspection |

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| 01.0480 | cannabis processing | 52.1880 | cannabis-related sales operations |
| 52.1980 | cannabis product branding | 52.1880 | cannabis-related selling skills and sales operations |
| 01.1180 | cannabis product development and plant breeding | 52.1880 | cannabis-related selling skills |
| 01.0480 | cannabis product inspection | 52.1880 | CannSell training program |
| 01.0480 | cannabis product packaging | 31.0601 | canoeing instructor |
| 01.0480 | cannabis product processing and inspection | 39.0802 | canon law |
| 01.0480 | cannabis product processing | 39.0802 | canonical law |
| 01.0680 | cannabis product quality assurance | 47.0604 | car mechanic |
| 01.0680 | cannabis product testing | 47.0604 | car repair |
| 52.1880 | cannabis product wholesaling | 52.1907 | car sales |
| 01.0680 | cannabis production facility management | 61.0804 | cardiology - fellowship |
| 01.0680 | cannabis production facility operations | 60.0706 | cardiology nurse practitioner - fellowship |
| 01.0680 | cannabis production management | 60.0706 | cardiology nurse practitioner - residency |
| 01.0680 | cannabis production operations and management | 60.0706 | cardiology nurse practitioner |
| 01.0680 | cannabis production operations | 60.0804 | cardiology pharmacy - fellowship |
| 01.0680 | cannabis production technology | 60.0804 | cardiology pharmacy - residency |
| 01.0680 | cannabis production | 60.0905 | cardiology physician assistant - fellowship |
| 44.0580 | cannabis public health policy | 60.0905 | cardiology physician assistant - residency |
| 44.0580 | cannabis public policy analysis | 60.0905 | cardiology physician associate - fellowship |
| 44.0580 | cannabis public policy | 60.0905 | cardiology physician associate - residency |
| 01.1180 | cannabis research and development | 51.0901 | cardiology technician |
| 01.1180 | cannabis research | 51.0901 | cardiology technologist |
| 52.1880 | cannabis retail manager licence | 51.0901 | cardiology technology |
| 52.1880 | cannabis sales clerk | 60.0706 | cardiology/cardiovascular nurse practitioner - fellowship |
| 52.1880 | cannabis sales operations | 60.0706 | cardiology/cardiovascular nurse practitioner - residency |
| 52.1880 | cannabis salesclerk | 34.0199 | cardiopulmonary resuscitation (CPR) (not for credit) |
| 52.1880 | cannabis salesperson | 51.0915 | cardiopulmonary technologist |
| 52.1880 | cannabis selling skills | 51.0915 | cardiopulmonary technology |
| 52.1880 | cannabis sommelier | 60.0906 | cardiothoracic surgery physician assistant - fellowship |
| 01.0680 | cannabis trimmer | 60.0906 | cardiothoracic surgery physician assistant - residency |
| 51.2280 | cannabis-related community health | 60.0906 | cardiothoracic surgery physician associate - fellowship |
| 44.0580 | cannabis-related health policy analysis | 60.0906 | cardiothoracic surgery physician associate - residency |
| 52.1980 | cannabis-related marketing and marketing operations | 61.0804 | cardiovascular disease - fellowship |
| 52.1980 | cannabis-related marketing operations | 60.0706 | cardiovascular nurse practitioner - fellowship |
| 52.1980 | cannabis-related marketing | 60.0706 | cardiovascular nurse practitioner - residency |
| 51.2280 | cannabis-related public health education | | |
| 44.0580 | cannabis-related public health policy | | |
| 51.2280 | cannabis-related public health | | |
| 44.0580 | cannabis-related public policy analysis | | |
| 44.0580 | cannabis-related public policy | | |

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| 26.0907 | cardiovascular science | 26.0406 | cell and molecular biology |
| 51.0901 | cardiovascular technician | 14.0501 | cell and tissue engineering |
| 51.0901 | cardiovascular technologist | 26.0407 | cell biology and anatomy |
| 51.0901 | cardiovascular technology | 26.0401 | cell biology and histology |
| 32.0107 | career awareness skills (not for credit) | 26.0406 | cell biology and molecular biology |
| 52.1006 | career coaching | 26.0401 | cell biology |
| 32.0107 | career exploration skills (not for credit) | 26.0903 | cell physiology |
| 05.0119 | Caribbean studies | 50.0911 | cello |
| 46.0201 | carpenter | 26.0406 | cellular and molecular biology |
| 46.0201 | carpenter-joiner | 26.0401 | cellular biology |
| 13.1320 | carpentry teaching | 16.1301 | Celtiberian |
| 46.0201 | carpentry | 16.1301 | Celtic languages and literature |
| 46.0413 | carpet installation | 16.1301 | Celtic languages |
| 46.0413 | carpet laying | 16.1301 | Celtic linguistics |
| 46.0413 | carpet, floor, and tile worker | 16.1301 | Celtic literature |
| 46.0413 | carpet, flooring, and tile technician | 46.0402 | cement finisher |
| 46.0413 | carpet, linoleum, and soft tile layer | 46.0402 | cement finishing |
| 45.0702 | cartographic technician | 46.0402 | cement mason |
| 45.0702 | cartographic technology | 46.0402 | cement-applicator operator |
| 45.0702 | cartography | 12.0302 | cemetery manager |
| 50.0709 | carving | 47.0201 | central air conditioning installer |
| 12.0602 | casino dealer | 47.0201 | central air conditioning repairer |
| 12.0602 | casino dealing | 05.0105 | Central and Eastern European studies |
| 12.0699 | casino gaming instructor | 05.0120 | Central Asian studies |
| 52.0908 | casino management | 05.0105 | Central European studies |
| 12.0601 | casino operations and gaming services | 50.0711 | ceramic arts |
| 12.0601 | casino operations and services | 14.0601 | ceramic engineering |
| 12.0601 | casino operations | 14.0601 | ceramic sciences |
| 12.0601 | casino services | 13.1302 | ceramic teacher |
| 12.0601 | casino training | 46.0413 | ceramic tile installation |
| 16.0907 | Catalan language and literature | 46.0413 | ceramic tile setting |
| 16.0907 | Catalan language | 50.0711 | ceramics |
| 16.0907 | Catalan literature | 51.0601 | certified dental assistant (CDA) |
| 16.0907 | Catalan | 15.0799 | certified exposure device operator (CEDO) |
| 39.0401 | catechism | 52.0804 | certified financial planner |
| 12.0504 | catering management | 52.0301 | certified general accountant (CGA) |
| 38.0208 | Catholic studies | 52.0305 | certified management accountant (CMA) |
| 16.1001 | Cayuga language | 51.3902 | certified nurse aide |
| 11.0203 | CCIE | 51.3902 | certified nursing aide |
| 11.0203 | CCNA | 51.3901 | certified nursing assistant |
| 11.0203 | CCNP | 50.0903 | chamber music performance |
| 13.1214 | CEGEP instructor | 52.9999 | change management |
| 26.0499 | cell and developmental biology | 39.0706 | chaplain studies |

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| 39.0706 | chaplain | 15.0806 | chief marine engineer |
| 39.0706 | chaplaincy studies | 51.3824 | child abuse nurse examiner |
| 52.0301 | chartered accountant (CA) | 61.1903 | child abuse pediatrics - fellowship |
| 52.0304 | chartered business valuator | 61.2403 | child and adolescent psychiatry - fellowship |
| 52.0304 | chartered financial valuator | 44.0702 | child and youth care counsellor |
| 16.1599 | Chechen-Ingushetian | 19.0701 | child and youth care |
| 01.0306 | cheese making | 19.0706 | child and youth studies |
| 12.0503 | chef training | 44.0702 | child and youth worker |
| 12.0503 | chef | 19.0708 | child care administration |
| 40.0502 | chemical analysis | 19.0708 | child care and support services management |
| 14.4301 | chemical and biochemical engineering | 19.0709 | child care assistant |
| 14.0702 | chemical and biomolecular engineering | 19.0708 | child care centre administration |
| 14.1801 | chemical and materials engineering | 19.0708 | child care management |
| 40.1002 | chemical and materials science | 19.0709 | child care provider |
| 14.2501 | chemical and petroleum engineering | 19.0709 | child care services |
| 51.1501 | chemical dependency counselling | 19.0709 | child care worker |
| 15.0615 | chemical engineering technician | 19.0709 | child care |
| 15.0615 | chemical engineering technology | 19.0708 | child day care management |
| 14.0701 | chemical engineering | 19.0706 | child development |
| 40.0512 | chemical informatics | 42.2703 | child developmental psychology |
| 41.0301 | chemical lab technician | 19.0706 | child growth, care and development studies |
| 41.0301 | chemical lab technology | 22.0219 | child law (graduate level) |
| 41.0301 | chemical laboratory technician | 61.1102 | child neurology - residency |
| 41.0301 | chemical laboratory technology | 61.2403 | child psychiatry - fellowship |
| 40.0607 | chemical oceanography | 42.2703 | child psychology |
| 61.1805 | chemical pathology - fellowship | 51.0299 | child speech-language disorders |
| 40.0508 | chemical physics | 19.0706 | child studies |
| 41.0303 | chemical process technology | 61.1102 | child/pediatric neurology - residency |
| 41.0301 | chemical technician | 45.9999 | childhood and social institutions |
| 41.0301 | chemical technologist | 19.0706 | childhood development |
| 41.0301 | chemical technology | 25.0102 | children's library services |
| 40.0512 | cheminformatics | 39.0702 | children's ministries |
| 40.0501 | chemist | 51.3809 | children's nurse |
| 40.1002 | chemistry and materials science | 05.0206 | Chinese American studies |
| 13.1323 | chemistry education | 05.0206 | Chinese Canadian studies |
| 40.0512 | chemistry informatics | 51.3302 | Chinese herbal medicine |
| 13.1323 | chemistry teacher education | 51.3302 | Chinese herbology |
| 13.1323 | chemistry teacher | 54.0106 | Chinese history |
| 13.1323 | chemistry teaching | 30.4501 | Chinese language and history |
| 40.0501 | chemistry | 16.0301 | Chinese language and literature |
| 40.0512 | chemoinformatics | | |
| 05.0203 | Chicano studies | | |
| 52.1206 | chief information officer training | | |

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| 16.0301 | Chinese language | 15.1304 | civil and municipal drafting |
| 16.0301 | Chinese literature | 15.0201 | civil and structural engineering technology |
| 51.3302 | Chinese medicine | 15.1304 | civil drafting |
| 05.0123 | Chinese studies | 15.1304 | civil engineering CAD |
| 13.1306 | Chinese teacher | 15.1304 | civil engineering computer-assisted design and drafting |
| 51.3302 | Chinese traditional medicine | 15.1304 | civil engineering drafting |
| 16.0301 | Chinese | 15.0201 | civil engineering technician |
| 51.1203 | chiroprapist | 15.0201 | civil engineering technologist |
| 51.1203 | chiroprody | 15.0201 | civil engineering technology |
| 51.0813 | chiropractic assistant | 14.0801 | civil engineering |
| 51.0813 | chiropractic technician | 22.0101 | civil law (except graduate level) |
| 51.0101 | chiropractic | 22.0299 | civil law (graduate level) |
| 51.0101 | chiropractor | 14.0803 | civil structural engineering |
| 50.0906 | choral conducting | 50.0915 | clarinet |
| 50.0301 | choreography, dance | 49.0205 | Class 1 truck driver |
| 39.0502 | christian contemporary worship music | 47.0604 | Class A mechanic |
| 38.0103 | Christian ethics | 10.0304 | classical animation |
| 39.0705 | Christian leadership | 45.0301 | classical archaeology |
| 39.0602 | Christian ministry | 45.0301 | classical archeology |
| 38.0203 | Christian studies | 50.0302 | classical ballet |
| 39.0601 | Christian theology | 30.2202 | classical civilization |
| 38.0203 | Christianity and culture | 50.0301 | classical dance |
| 38.0203 | church history | 30.2202 | classical Greek and Roman civilization |
| 16.1203 | Church Latin | 30.2202 | classical Greek and Roman studies |
| 39.0802 | church law | 16.1202 | classical Greek language and literature |
| 39.0602 | church ministry | 16.1202 | classical Greek language |
| 39.0501 | church music | 16.1202 | classical Greek literature |
| 39.0302 | church planting | 16.1202 | classical Greek |
| 12.0599 | cicerone | 16.0702 | Classical Indian languages and literature |
| 50.0602 | cinema production | 16.0702 | Classical Indian languages |
| 50.0601 | cinema studies | 16.0702 | Classical Indian linguistics |
| 50.0602 | cinematography | 16.0702 | Classical Indian literature |
| 05.0136 | circumpolar studies | 16.1200 | classical languages |
| 50.9999 | circus arts | 16.1200 | classical literature |
| 05.0105 | CIS studies | 50.0901 | classical music |
| 11.0203 | CISCO certification | 30.2202 | classical studies and archaeology |
| 11.0203 | Cisco Certified Internetwork Expert | 30.2202 | classical studies |
| 11.0203 | Cisco Certified Network Associate | 30.2202 | classical, ancient Mediterranean and Near Eastern studies and archaeology |
| 11.0203 | Cisco Certified Network Professional | 16.1200 | classics and classical languages, literatures and linguistics |
| 11.0203 | CISCO | 13.1399 | classics education |
| 14.0899 | cities engineering and management | | |
| 33.0101 | citizenship activities, general (not for credit) | | |
| 04.0301 | city planning | | |

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| 16.1200 | classics literature | 51.1506 | clinical pastoral counselling |
| 30.2202 | classics | 51.1506 | clinical pastoral patient counselling |
| 19.0999 | cleaner and presser | 61.1803 | clinical pathology - residency |
| 39.0602 | clergy | 60.0805 | clinical pharmacogenomics pharmacy - fellowship |
| 52.0408 | clerk typist | 60.0805 | clinical pharmacogenomics pharmacy - residency |
| 30.3501 | climate science | 51.2008 | clinical pharmacy |
| 30.3501 | climatology | 42.2801 | clinical psychology |
| 51.0710 | clinic office assistant | 51.0719 | clinical research administrator |
| 51.2006 | clinical and industrial drug development | 51.0719 | clinical research coordinator |
| 51.1402 | clinical and translational science | 51.1401 | clinical science (MS, MSc, PhD) |
| 51.0801 | clinical assistant | 51.1503 | clinical social work |
| 61.0901 | clinical biochemical genetics - residency | 51.0719 | clinical trial research coordination |
| 61.0805 | clinical cardiac electrophysiology - fellowship | 51.0719 | clinical trials management |
| 42.2807 | clinical child psychology | 51.2008 | clinical, hospital, and managed care pharmacy |
| 61.0903 | clinical cytogenetics - residency | 51.1401 | clinician investigator program (MS, MSc, PhD) |
| 61.0903 | clinical cytogenetics and genomics - residency | 47.0408 | clock repair |
| 51.2006 | clinical drug development | 47.0408 | clockmaker-jeweller |
| 61.0902 | clinical genetics - residency | 47.0408 | clockmaking |
| 61.0902 | clinical genetics and genomics - residency | 43.0120 | close protection |
| 51.1010 | clinical genetics technologist | 10.0204 | closed captioning |
| 51.1010 | clinical genetics technology | 19.0901 | clothing and textiles |
| 51.3603 | clinical hypnosis | 50.0407 | clothing design |
| 51.3603 | clinical hypnotherapy | 11.0902 | cloud computing |
| 60.0707 | clinical informatics nurse practitioner - fellowship | 48.0510 | CNC machining |
| 60.0707 | clinical informatics nurse practitioner - residency | 48.0510 | CNC machinist |
| 51.0802 | clinical lab assistant | 48.0510 | CNC programmer |
| 51.1004 | clinical lab technician | 15.0901 | coal mining |
| 51.0802 | clinical laboratory assistant | 48.0304 | cobbler |
| 51.1005 | clinical laboratory science | 42.2701 | cognitive and motivational psychology |
| 51.1004 | clinical laboratory technician | 26.1501 | cognitive neuroscience |
| 51.1005 | clinical laboratory technologist | 42.2701 | cognitive psychology |
| 61.0903 | clinical molecular genetics - residency | 30.2599 | cognitive science of language |
| 61.0903 | clinical molecular genetics and genomics - residency | 30.2501 | cognitive science |
| 61.1103 | clinical neurophysiology - fellowship | 36.0111 | collecting (not for credit) |
| 42.2801 | clinical neuropsychology | 13.0407 | college administration |
| 51.3820 | clinical nurse leader | 13.1102 | college counsellor |
| 51.3813 | clinical nurse specialist | 13.1214 | college instructor |
| 51.3813 | clinical nursing | 53.0102 | college preparatory program |
| 51.3102 | clinical nutrition | 13.1102 | college student counselling and personnel services |

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| 13.1214 | college teaching | 60.0902 | combined physician assistant residency program |
| 61.2702 | colon and rectal surgery - residency | 60.0902 | combined physician associate fellowship program |
| 51.3503 | colonic irrigation | 60.0902 | combined physician associate residency program |
| 27.0399 | combinatorics and optimization | 50.0511 | comedic arts |
| 27.0102 | combinatorics | 50.0511 | comedy performance |
| 61.1801 | combined anatomic and clinical pathology - residency | 50.0511 | comedy studies |
| 51.0204 | combined audiologist and speech language pathologist | 50.0511 | comedy writing and performance |
| 51.0204 | combined audiology and speech language pathology | 50.0511 | comedy writing |
| 26.0210 | combined biochemistry and molecular biology | 50.0511 | comic script writing |
| 19.0201 | combined business and consumer sciences | 50.0511 | comic scriptwriting |
| 19.0201 | combined business and human sciences | 13.1303 | commerce education |
| 27.0304 | combined computational and applied mathematics | 22.0205 | commerce law (graduate level) |
| 26.1310 | combined ecology and evolutionary biology | 52.0101 | commerce |
| 51.0924 | combined lab and x-ray technician | 50.0406 | commercial and digital photography |
| 51.0924 | combined lab and x-ray technologist | 50.0402 | commercial art painting |
| 51.0924 | combined laboratory and x-ray technician | 50.0402 | commercial art |
| 51.0924 | combined laboratory and x-ray technologist | 50.0402 | commercial artist |
| 51.0924 | combined laboratory and X-ray technology | 49.0104 | commercial aviation management |
| 27.0503 | combined mathematics and statistics | 12.0501 | commercial baking |
| 61.0101 | combined medical fellowship programs | 01.0310 | commercial beekeeping |
| 61.0101 | combined medical residency programs | 46.0415 | commercial construction technician |
| 61.0101 | combined medical residency/fellowship programs | 46.0415 | commercial construction technology |
| 51.0711 | combined medical services management and clinical assistant | 46.0415 | commercial construction |
| 51.0711 | combined medical services management and clinical specialist | 12.0505 | commercial cooking aide |
| 26.0508 | combined microbiology and immunology | 12.0500 | commercial cooking |
| 60.0702 | combined nurse practitioner fellowship programs | 52.0809 | commercial credit |
| 60.0702 | combined nurse practitioner residency programs | 49.0304 | commercial diving |
| 26.1007 | combined pharmacology and toxicology | 49.0205 | commercial driver education |
| 60.0802 | combined pharmacy - fellowship | 49.0205 | commercial driver |
| 60.0802 | combined pharmacy - residency | 49.0303 | commercial fishing |
| 60.0902 | combined physician assistant fellowship program | 01.0207 | commercial irrigation |
| | | 22.0205 | commercial law (graduate level) |
| | | 46.0408 | commercial painting |
| | | 50.0406 | commercial photography |
| | | 49.0102 | commercial pilot |
| | | 46.0410 | commercial roofing |
| | | 47.0613 | commercial transport mechanic |
| | | 47.0613 | commercial transport vehicle mechanic |
| | | 22.0101 | common law (except graduate level) |
| | | 22.0299 | common law (graduate level) |

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| 23.1404 | Commonwealth literature (in English) | 19.0707 | community development worker |
| 05.0105 | Commonwealth of Independent States (CIS) studies | 45.0604 | community economic development |
| 05.0121 | Commonwealth studies | 51.2208 | community health and preventive medicine |
| 09.9999 | communication and scientific journalism | 51.1504 | community health care |
| 13.1339 | communication arts and literature teacher education | 51.1504 | community health counselling |
| 50.0401 | communication design | 51.1504 | community health education |
| 51.0201 | communication disorders | 51.1504 | community health liaison |
| 13.1399 | communication education | 60.0739 | community health nurse practitioner - fellowship |
| 19.0202 | communication in consumer sciences | 60.0739 | community health nurse practitioner - residency |
| 19.0202 | communication in family and consumer sciences | 51.3811 | community health nursing |
| 19.0202 | communication in human sciences | 51.1504 | community health representative |
| 09.0909 | communication management and strategic communications | 51.2208 | community health science |
| 09.0909 | communication management | 51.1504 | community health services |
| 51.0201 | communication sciences and disorders | 01.0610 | community horticulture |
| 09.0100 | communication sciences | 30.0001 | community integration through cooperative education (CICE) |
| 09.0100 | communication studies | 30.0001 | community integration through cooperative education |
| 47.0103 | communication technician (apprenticeship) | 33.0104 | community involvement (not for credit) |
| 09.0100 | communication | 51.2208 | community medicine |
| 47.0103 | communications electrician (apprenticeship) | 51.3811 | community nurse |
| 15.0305 | communications engineering technology | 51.3811 | community nursing |
| 14.1004 | communications engineering | 44.0201 | community organization and action |
| 14.1004 | communications systems engineering | 44.0201 | community organization and advocacy |
| 47.0103 | communications systems installation and repair | 44.0201 | community organization |
| 47.0103 | communications technician (apprenticeship) | 60.0806 | community pharmacy - fellowship |
| 10.0105 | communications technician | 60.0806 | community pharmacy - residency |
| 10.0105 | communications technology | 51.2099 | community pharmacy |
| 09.0100 | communications | 04.0301 | community planning |
| 51.0816 | communicative disorders assistant | 42.2802 | community psychology |
| 44.0201 | community action | 31.0101 | community recreation |
| 44.0201 | community advocacy | 19.0707 | community service worker |
| 51.1504 | community and health services navigation | 19.0707 | community services |
| 04.0301 | community and regional planning | 19.0707 | community support worker |
| 50.1101 | community art | 19.0707 | community wellness |
| 50.1101 | community arts practice | 19.0707 | community worker |
| 33.0103 | community awareness (not for credit) | 60.0806 | community/community-based pharmacy - fellowship |
| 51.2299 | community care licensing officer | 60.0806 | community/community-based pharmacy - residency |
| 13.0407 | community college administration | 60.0806 | community-based pharmacy - fellowship |
| | | 60.0806 | community-based pharmacy - residency |

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| 01.8104 | companion animal surgery and medicine | 40.0810 | computational physics |
| 01.8102 | comparative and laboratory animal medicine (Cert., MS, MSc, PhD) | 30.3001 | computational science |
| 26.0299 | comparative biochemistry | 30.1601 | computer accounting |
| 16.0104 | comparative Canadian literature | 11.0501 | computer analyst |
| 30.2601 | comparative cultural studies | 14.4701 | computer and electrical engineering |
| 05.9999 | comparative culture and area studies | 14.4701 | computer and electronics engineering |
| 05.0212 | comparative ethnic studies | 11.0101 | computer and information sciences |
| 45.1001 | comparative government and politics | 11.1001 | computer and network support technician |
| 05.0212 | comparative group studies | 11.1003 | computer and network systems security |
| 22.0101 | comparative law (except graduate level) | 10.0304 | computer animation |
| 22.0206 | comparative law (graduate level) | 11.0201 | computer applications development |
| 16.0104 | comparative literature | 11.1006 | computer call centre specialist |
| 01.8102 | comparative medicine | 43.0403 | computer counterterrorism |
| 45.1001 | comparative politics | 15.1302 | computer drafting |
| 42.2702 | comparative psychology | 13.1321 | computer education |
| 38.0201 | comparative religion | 15.1201 | computer electronics technician |
| 52.1301 | competitive intelligence | 15.1201 | computer electronics |
| 51.3300 | complementary medicine | 15.1201 | computer engineering technician |
| 61.2703 | complex general surgical oncology - fellowship | 15.1201 | computer engineering technology |
| 22.0216 | compliance law (graduate level) | 14.0901 | computer engineering |
| 15.0617 | composite materials engineering technician | 43.0403 | computer forensics and counterterrorism |
| 15.0617 | composite materials engineering technology | 43.0403 | computer forensics |
| 15.0617 | composite materials processing technician | 50.0411 | computer game design and development |
| 15.0617 | composite materials processing technology | 11.0204 | computer game design and programming |
| 15.0617 | composite materials technician | 50.0411 | computer game design |
| 15.0617 | composite materials technology | 11.0204 | computer game development and programming |
| 30.0001 | comprehensive transition and postsecondary program (CTP) | 11.0204 | computer game programming |
| 30.0001 | comprehensive transition and postsecondary program | 36.0113 | computer games and programming skills (not for credit) |
| 52.0499 | comptometer operator | 10.0303 | computer graphics for desktop publishing |
| 27.0304 | computational and applied mathematics | 10.0303 | computer graphics for prepress |
| 26.1104 | computational and systems biology | 11.0803 | computer graphics |
| 26.1104 | computational biology | 14.0902 | computer hardware engineering |
| 40.0512 | computational chemistry | 15.1203 | computer hardware technician |
| 40.0603 | computational geophysics | 15.1203 | computer hardware technology |
| 30.4801 | computational linguistics | 11.1006 | computer help desk specialist |
| 27.0303 | computational mathematics | 11.0103 | computer information systems |
| 26.1599 | computational neurobiology | 47.0104 | computer installation and repair |
| 26.1501 | computational neuroscience | 30.4801 | computer linguistics |
| | | 11.1001 | computer network administration |
| | | 11.1001 | computer network administrator |
| | | 15.1299 | computer network engineering technician |

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| 15.1299 | computer network engineering technology | 47.0104 | computer systems service technician |
| 14.0999 | computer network engineering | 11.1001 | computer systems technician - networking |
| 11.1002 | computer network management | 15.1202 | computer systems technician |
| 11.1002 | computer network manager | 11.1001 | computer systems technology - networking |
| 11.1003 | computer network security | 15.1202 | computer systems technology |
| 11.1001 | computer network specialist | 11.0901 | computer systems telecommunications (university) |
| 11.1001 | computer network technology | 13.1321 | computer teacher education |
| 11.1001 | computer networking and technical support | 13.1321 | computer teacher |
| 11.1001 | computer networking technology | 11.1006 | computer technical support specialist |
| 11.1001 | computer networking | 15.1202 | computer technician |
| 11.0901 | computer networks (university) | 15.1202 | computer technology |
| 11.1003 | computer networks and security | 10.0308 | computer typography and composition |
| 48.0510 | computer numerical control machining | 15.1303 | computer-aided architectural drafting |
| 11.0201 | computer programmer | 15.1302 | computer-aided design and drafting technology |
| 11.0501 | computer programmer-analyst | 15.1302 | computer-aided design |
| 11.0201 | computer programming technology | 15.1302 | computer-aided drafting |
| 11.0202 | computer programming, business applications | 15.0613 | computer-aided manufacturing technology |
| 11.0201 | computer programming | 15.1302 | computer-assisted drafting |
| 47.0104 | computer repair technician | 15.1306 | computer-assisted mechanical drafting |
| 47.0104 | computer repair | 50.0913 | computer-assisted scoring |
| 11.0204 | computer science - computer game development | 50.0917 | computer-assisted sonic design |
| 11.0204 | computer science - game programming | 52.0302 | computerized accounting |
| 30.3901 | computer science and economics | 52.0302 | computerized bookkeeping |
| 30.4801 | computer science and linguistics | 15.1306 | computerized mechanical design |
| 13.1321 | computer science education | 48.0510 | computerized numerically controlled manufacturing |
| 11.0701 | computer science technology | 11.0101 | computing and information science |
| 11.0701 | computer science | 11.0101 | computing and information systems |
| 11.1003 | computer security | 11.0701 | computing science |
| 47.0104 | computer service technician | 46.0101 | concrete block laying |
| 11.0804 | computer simulation | 46.0402 | concrete finisher |
| 14.0903 | computer software engineering | 46.0402 | concrete finishing |
| 15.1204 | computer software technician | 46.0402 | concrete preparation and finishing |
| 15.1204 | computer software technology | 40.0808 | condensed-matter physics |
| 11.1006 | computer support specialist | 52.1501 | condominium management |
| 11.1001 | computer systems administration | 12.0599 | confectioner |
| 11.1001 | computer systems administrator | 52.0907 | conference management |
| 11.0501 | computer systems analyst | 52.0907 | conference planning |
| 14.0901 | computer systems engineering | 30.0501 | conflict resolution studies |
| 11.0901 | computer systems networking (university) | 61.2704 | congenital cardiac surgery - fellowship |
| 11.1003 | computer systems security | 26.1307 | conservation biology |

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| 03.0208 | conservation enforcement | 19.0403 | consumer services |
| 03.0208 | conservation law enforcement | 19.0201 | consumer studies |
| 03.0201 | conservation management | 13.0607 | contemplative inquiry approach in education |
| 30.1201 | conservation of built heritage | 30.2502 | contemplative inquiry |
| 30.1201 | conservation of heritage buildings | 30.2502 | contemplative studies |
| 30.1201 | conservation of the built environment | 50.0301 | contemporary dance |
| 03.0208 | conservation officer | 39.0502 | contemporary praise and worship music |
| 22.0204 | constitutional law (graduate level) | 39.0502 | contemporary worship music |
| 48.0801 | construction boilermaker | 13.1201 | continuing education teacher |
| 46.0201 | construction carpentry | 52.0202 | contracts management |
| 46.0000 | construction craft labourer | 15.0404 | control engineering technology |
| 46.0000 | construction craft worker | 14.4201 | control engineering |
| 15.1303 | construction drafting | 52.0399 | controllership |
| 46.0302 | construction electrician | 52.0907 | conventions and meetings management |
| 14.3301 | construction engineering and management | 22.0399 | conveyance clerk |
| 15.1001 | construction engineering technician | 22.0399 | conveyancing |
| 15.1001 | construction engineering technology | 12.0500 | cook |
| 14.3301 | construction engineering | 36.0112 | cooking and other domestic skills (not for credit) |
| 49.0202 | construction equipment operation | 12.0580 | cooking with cannabidiol (CBD) |
| 46.0412 | construction foreman/forewoman | 12.0580 | cooking with cannabis oil |
| 47.0302 | construction heavy equipment mechanics | 12.0580 | cooking with cannabis |
| 46.0403 | construction inspection | 12.0580 | cooking with marijuana |
| 46.0403 | construction inspector | 12.0580 | cooking with weed |
| 52.2001 | construction management | 12.0500 | cooking |
| 47.0303 | construction millwright | 16.1103 | Coptic |
| 52.2002 | construction project management | 16.1301 | Cornish |
| 46.0412 | construction site management | 51.3899 | coronary care nursing |
| 46.0412 | construction site manager | 52.0501 | corporate communications |
| 46.0412 | construction supervision | 22.0216 | corporate compliance law (graduate level) |
| 15.1102 | construction surveying | 22.0101 | corporate law (except graduate level) |
| 46.0415 | construction technology | 22.0205 | corporate law (graduate level) |
| 46.0000 | construction trades | 60.0807 | corporate pharmacy leadership - fellowship |
| 46.0000 | construction | 60.0807 | corporate pharmacy leadership - residency |
| 61.2404 | consultation-liaison psychiatry - fellowship | 22.0205 | corporation law (graduate level) |
| 61.2404 | consultative psychiatry - fellowship | 43.0102 | correction services worker |
| 19.0403 | consumer advocacy | 43.0102 | correctional officer |
| 19.0201 | consumer behaviour | 43.0102 | correctional services technology |
| 19.0402 | consumer economics | 43.0102 | correctional services |
| 19.0403 | consumer education and advocacy | 43.0102 | correctional techniques |
| 19.0203 | consumer management and merchandising | 43.0102 | correctional worker |
| 19.0403 | consumer protection | 43.0113 | corrections administration |
| 19.0201 | consumer sciences | | |

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| 43.0100 | corrections and criminal justice | 52.0809 | credit management |
| 43.0102 | corrections | 16.1001 | Cree language studies |
| 15.0699 | corrosion engineering technician | 16.1001 | Cree language |
| 14.1801 | corrosion engineering | 16.1001 | Cree linguistics |
| 51.2009 | cosmetic chemist | 45.0401 | criminal deviance |
| 51.2009 | cosmetic sciences | 43.0107 | criminal justice - policing |
| 12.0401 | cosmetician | 43.0109 | criminal justice - security |
| 12.0401 | cosmetologist | 43.0103 | criminal justice administration |
| 12.0413 | cosmetology instructor | 43.0100 | criminal justice and corrections |
| 12.0401 | cosmetology | 43.0104 | criminal justice and public policy |
| 40.1101 | cosmology | 43.0100 | criminal justice studies |
| 50.0510 | costume design | 43.0104 | criminal justice system studies |
| 50.0510 | costume studies | 43.0100 | criminal justice |
| 42.2803 | counselling psychology | 22.0101 | criminal law (except graduate level) |
| 43.0399 | counterterrorism | 22.0217 | criminal law (graduate level) |
| 51.1505 | couple and family therapy | 22.0217 | criminal law and procedure (graduate level) |
| 13.0501 | courseware authoring | 42.2812 | criminal psychology |
| 13.0501 | courseware development | 43.0402 | criminal science |
| 22.0399 | court and tribunal agent | 43.0402 | criminalistics |
| 22.0304 | court interpreter | 45.0401 | criminology |
| 22.0303 | court reporter | 51.1513 | crisis intervention management |
| 22.0303 | court reporting and captioning | 51.1513 | crisis intervention |
| 22.0303 | court reporting | 43.0302 | crisis management |
| 22.0303 | court stenographer | 60.0908 | critical care and trauma surgery physician assistant - fellowship |
| 22.0303 | court stenography | 60.0908 | critical care and trauma surgery physician assistant - residency |
| 22.0399 | court support services | 60.0908 | critical care and trauma surgery physician associate - fellowship |
| 22.0304 | courtroom interpreting | 60.0908 | critical care and trauma surgery physician associate - residency |
| 01.1003 | craft beer brewing | 61.0202 | critical care anesthesiology - fellowship |
| 01.1003 | craft brewer | 61.0202 | critical care medicine - fellowship |
| 01.1099 | craft distilling | 60.0703 | critical care nurse practitioner - fellowship |
| 50.0201 | crafts | 60.0703 | critical care nurse practitioner - residency |
| 49.0206 | crane and hoist operator | 60.0703 | critical care nurse practitioner |
| 49.0206 | crane and hoisting equipment operator | 51.3814 | critical care nurse |
| 49.0206 | crane operating | 51.3814 | critical care nursing |
| 49.0206 | crane operator | 60.0808 | critical care pharmacy - fellowship |
| 51.0503 | craniofacial biology (MS, MSc, PhD) | 60.0808 | critical care pharmacy - residency |
| 12.0602 | craps dealer | 60.0907 | critical care physician assistant - fellowship |
| 50.0402 | creative advertising design | 60.0907 | critical care physician assistant - residency |
| 09.0903 | creative advertising | 60.0907 | critical care physician associate - residency |
| 50.0401 | creative design | | |
| 50.0407 | creative fashion design | | |
| 50.0409 | creative graphics | | |
| 50.0605 | creative photography | | |

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| 61.2706 | critical care surgery - fellowship | 47.0617 | custom engine mechanic |
| 43.0119 | critical incident response/special police operations | 19.0999 | custom tailoring and alterations |
| 51.1599 | critical incident stress management | 52.0411 | customer service by telephone |
| 43.0399 | critical infrastructure protection | 52.0207 | customer service management |
| 30.2601 | critical theory and analysis | 52.0411 | customer service representative |
| 60.0907 | critical care physician associate - fellowship | 52.0411 | customer service support |
| 16.0408 | Croatian language and literature | 52.0411 | customer service |
| 16.0408 | Croatian language | 43.0103 | customs administration |
| 16.0408 | Croatian literature | 52.0209 | customs broker |
| 16.0408 | Croatian | 52.0410 | customs clerk |
| 01.1199 | crop and horticultural science | 52.0410 | customs technician |
| 01.0304 | crop production | 03.0511 | cutter and skidder |
| 01.1102 | crop science | 19.0999 | cutting and sewing |
| 01.0304 | crop technology | 43.0403 | cyber counterterrorism |
| 12.0602 | croupier | 43.0403 | cyber forensics and counterterrorism |
| 05.0203 | Cuban American studies | 43.0403 | cyber forensics |
| 12.0504 | culinary administration | 43.0403 | cyber investigation |
| 12.0503 | culinary arts | 52.1404 | cybermarketing |
| 12.0504 | culinary management | 43.0404 | cybersecurity defense policy |
| 12.0509 | culinary science | 43.0404 | cybersecurity defense strategy |
| 12.0509 | culinology | 43.0404 | cybersecurity policy |
| 45.0204 | cultural and social anthropology | 11.1003 | cyberspace security |
| 45.0204 | cultural anthropology | 51.1010 | cytogenetics technologist |
| 45.0701 | cultural geography | 51.1010 | cytogenetics technology |
| 09.0406 | cultural journalism | 26.0899 | cytogenetics |
| 09.0406 | cultural reporting | 26.0401 | cytology |
| 30.1202 | cultural resource management and policy analysis | 61.1806 | cytopathology - fellowship |
| 30.1202 | cultural resource management | 51.1002 | cytotechnologist |
| 43.0123 | cultural resources protection | 51.1002 | cytotechnology |
| 30.3601 | cultural studies and comparative literature | 16.0406 | Czech language and literature |
| 30.2601 | cultural studies | 16.0406 | Czech language |
| 13.0901 | culture and values in education | 16.0406 | Czech literature |
| 13.0301 | curriculum and instruction | 16.0406 | Czech |
| 13.0301 | curriculum development | | |
| 13.0301 | curriculum education | D | |
| 13.0301 | curriculum specialization | 01.0306 | dairy farming |
| 13.0301 | curriculum studies | 01.0306 | dairy herd management |
| 13.0301 | curriculum theory | 01.0306 | dairy herdsman |
| 13.0301 | curriculum | 01.0306 | dairy herdsperson |
| 16.1199 | Cushitic languages | 01.0306 | dairy herdsman |
| | | 01.0306 | dairy husbandry |
| | | 01.0306 | dairy production |

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| 01.0905 | dairy science | 05.0211 | deaf studies and Quebec Sign Language |
| 01.0306 | dairy technology | 05.0211 | deaf studies and sign language |
| 16.1001 | Dakota language studies | 05.0211 | deaf studies |
| 46.9999 | damage prevention technician | 30.5301 | death studies |
| 50.0512 | dance and theatre | 49.0309 | deck officer |
| 50.0301 | dance movement studies | 49.0304 | deep-sea diving |
| 13.1324 | dance teacher | 29.0501 | defence engineering and management |
| 51.2302 | dance therapist | 29.0501 | defence engineering |
| 51.2302 | dance therapy | 28.0801 | defence management and policy |
| 50.0301 | dance | 28.0801 | defence studies |
| 36.0114 | dancing (not for credit) | 43.0110 | delinquency intervention |
| 50.0301 | dancing | 45.0501 | demography and population studies |
| 16.0503 | Danish language and literature | 45.0501 | demography |
| 16.0503 | Danish language | 51.0716 | dental administrative assistant |
| 16.0503 | Danish literature | 51.0601 | dental assistant |
| 16.0503 | Danish | 51.0601 | dental assisting |
| 04.0201 | DArch | 51.0501 | dental clinical sciences (MS, MSc, PhD) |
| 30.7101 | data analytics | 51.0513 | dental geriatrics (Cert., MS, MSc, PhD) |
| 11.0601 | data entry operator | 13.1327 | dental hygiene education |
| 11.0601 | data entry | 51.0602 | dental hygiene |
| 11.0802 | data mining | 51.0602 | dental hygienist |
| 11.0301 | data processing technician | 51.0514 | dental implantology (Cert., MS, MSc, PhD) |
| 11.0301 | data processing technology | 51.0603 | dental lab technician |
| 11.0301 | data processing | 51.0603 | dental lab technology |
| 30.7099 | data science and analytics | 51.0603 | dental laboratory technician |
| 30.7001 | data science | 51.0603 | dental laboratory technology |
| 30.7103 | data visualization | 51.0505 | dental materials (MS, MSc, PhD) |
| 11.0802 | data warehousing | 51.0401 | dental medicine |
| 11.0802 | database administration | 51.0601 | dental nurse |
| 11.0802 | database developer | 51.0601 | dental nursing |
| 11.0802 | database management | 51.0705 | dental office administration |
| 19.0709 | day care services | 51.0705 | dental office management |
| 16.1499 | Dayak | 60.0102 | dental public health - residency |
| 19.0709 | daycare assistant | 51.0504 | dental public health (Master's degree) |
| 19.0708 | daycare management | 51.0504 | dental public health (PhD) |
| 19.0709 | daycare provider | 51.0504 | dental public health and education (Cert., MS, MSc, MPH, PhD, DPH) |
| 19.0709 | daycare worker | 60.0102 | dental public health specialty - residency |
| 19.0709 | daycare | 51.0712 | dental reception |
| 51.0401 | DDS | 51.0712 | dental receptionist |
| 13.1003 | deaf education | 51.0501 | dental sciences (MS, MSc, PhD) |
| 05.0211 | deaf studies and American Sign Language | 51.0716 | dental secretarial |
| 05.0211 | deaf studies and ASL | 51.0716 | dental secretary |
| 05.0211 | deaf studies and QSL | | |

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| 60.0101 | dental surgery - residency | 51.0910 | diagnostic medical sonography |
| 51.0603 | dental technician | 51.0911 | diagnostic radiographer |
| 51.0603 | dental technology | 61.2604 | diagnostic radiologic physics - residency |
| 51.0699 | dental therapy | 61.2601 | diagnostic radiology - residency |
| 60.0101 | dental/oral surgery specialty - residency | 61.0102 | diagnostic radiology and nuclear medicine - combined specialty |
| 51.0401 | dentist | 61.0102 | diagnostic radiology/nuclear medicine - combined specialty |
| 51.0401 | dentistry | 51.1011 | dialysis technician |
| 51.0603 | denturist | 51.1011 | dialysis technologist |
| 51.0603 | denturology | 51.1011 | dialysis technology |
| 61.0501 | dermatology - residency | 48.9999 | diamond cutting and polishing |
| 60.0708 | dermatology nurse practitioner - fellowship | 48.9999 | diamond cutting |
| 60.0708 | dermatology nurse practitioner - residency | 15.0901 | diamond drilling |
| 61.0502 | dermatopathology - fellowship | 48.9999 | diamond polishing |
| 50.0401 | design arts | 05.0299 | diaspora studies |
| 14.9999 | design engineering | 52.0408 | dicta-typing |
| 30.3701 | design for human health | 48.0507 | die maker |
| 04.0402 | design of healthcare environments | 48.0507 | die making |
| 10.0303 | desktop publishing | 48.0507 | diemaker |
| 52.1906 | development and promotion of travel products | 47.0605 | diesel engine mechanic |
| 45.0604 | development economics and international development | 47.0605 | diesel mechanic |
| 45.0604 | development economics | 47.0605 | diesel mechanics |
| 01.1180 | development of new cannabis plant strains | 47.0605 | diesel service technician |
| 42.2710 | developmental and adolescent psychology | 47.0605 | diesel technician |
| 60.0709 | developmental and behavioural pediatrics nurse practitioner - fellowship | 47.0605 | diesel technology |
| 60.0709 | developmental and behavioural pediatrics nurse practitioner - residency | 51.3104 | dietary aide |
| 42.2703 | developmental and child psychology | 19.0505 | dietary and food service management |
| 26.0404 | developmental biology | 51.3104 | dietary assistant |
| 26.1501 | developmental neuroscience | 51.3103 | dietetic technician, registered (DTR) |
| 42.2799 | developmental psychology | 51.3103 | dietetic technician |
| 19.0710 | developmental services worker (DSW) | 13.1327 | dietetics education |
| 19.0710 | developmental services worker | 13.1327 | dietetics teaching |
| 61.1904 | developmental-behavioural pediatrics - fellowship | 51.3101 | dietetics |
| 51.0721 | diabetes data management | 51.3104 | dietitian assistant |
| 51.9999 | diabetes education | 51.3101 | dietitian |
| 60.0710 | diabetes nurse practitioner - fellowship | 10.0304 | digital animation |
| 60.0710 | diabetes nurse practitioner - residency | 50.0102 | digital art |
| 51.0721 | diabetes registry data management | 50.0102 | digital arts |
| 51.0721 | diabetes registry management | 09.0702 | digital communication and media |
| 51.0910 | diagnostic medical sonographer | 09.0702 | digital communication and multimedia |
| | | 09.0702 | digital communications |
| | | 51.0512 | digital dentistry (Cert., MS, MSc, PhD) |

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| 30.5201 | digital humanities and textual studies | 51.1701 | doctor of optometry (OD) |
| 30.5202 | digital humanities | 51.1202 | doctor of osteopathic medicine (DO) |
| 10.0303 | digital imaging design | 51.1203 | doctor of podiatric medicine (DPM) |
| 45.0702 | digital mapping | 22.0201 | Doctor of the Science of Laws |
| 52.1404 | digital marketing | 01.8001 | doctor of veterinary medicine (DVM) |
| 09.0702 | digital media | 51.1201 | doctor |
| 12.0507 | dining room management | 51.0504 | doctorate in dental public health (DPH) |
| 12.0507 | dining room service | 51.3818 | Doctorate of Advanced Nursing Practice |
| 51.3401 | direct entry midwife | 51.3818 | Doctorate of Nursing Practice (DNP) |
| 51.3401 | direct entry midwifery | 51.2201 | doctorate of public health (DPH) |
| 14.1201 | directed energy physics | 51.0710 | doctor's office assistant |
| 50.0507 | direction of plays | 50.0607 | documentary production |
| 14.0201 | dirigible engineering | 01.0504 | dog grooming |
| 19.0710 | disability and community rehabilitation | 01.0505 | dog training |
| 51.0799 | disability management | 19.0101 | domestic science |
| 05.0210 | disability studies | 50.0911 | double bass |
| 43.0302 | disaster and emergency management | 51.2001 | DPharm |
| 43.0302 | disaster and emergency studies | 15.1301 | drafting and design technician |
| 43.0302 | disaster management | 15.1301 | drafting and design technology |
| 61.0602 | disaster medicine - fellowship | 15.1301 | drafting and design |
| 43.0302 | disaster medicine and management | 15.1302 | drafting CAD |
| 43.0302 | disaster operations and recovery | 15.1301 | drafting technician |
| 43.0302 | disaster planning and management | 15.1301 | drafting technology |
| 51.0721 | disease registry data management | 15.1301 | drafting |
| 51.0721 | disease registry management | 13.1324 | drama and dance teacher education |
| 51.1801 | dispensing optician | 50.0501 | drama and theatre |
| 30.2801 | dispute resolution | 13.1324 | drama education |
| 13.1299 | distance learning teacher | 13.1324 | drama teacher |
| 01.1099 | distilling | 51.2315 | drama therapist |
| 49.0304 | diving instructor | 51.2315 | drama therapy |
| 39.0602 | divinity | 50.0501 | drama |
| 51.0401 | DMD | 50.0506 | dramatic actor/actress |
| 51.0101 | doctor of chiropractic medicine (DC) | 50.0501 | dramatic arts |
| 51.0401 | doctor of dental medicine | 50.0504 | dramatic writing |
| 51.0401 | doctor of dental surgery | 50.0705 | drawing |
| 22.0201 | Doctor of Juridical Science | 19.0999 | dressmaker |
| 22.0201 | Doctor of Law | 19.0999 | dressmaking |
| 22.0201 | Doctor of Laws (LLD) | 46.0505 | drilling and blasting |
| 22.0201 | Doctor of Laws | 46.0504 | drilling |
| 51.0401 | doctor of medical dentistry | 13.1304 | driver and safety instructor |
| 51.1201 | doctor of medicine | 36.0203 | driver education (not for credit) |
| 51.3303 | doctor of naturopathic medicine (NMD) | 13.1304 | driver instructor |
| 51.3303 | doctor of naturopathy (ND) | 36.0203 | driver safety course (not for credit) |

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| 36.0203 | drivers ed (not for credit) | 13.1210 | early childhood education and teaching (Bachelor degree) |
| 36.0203 | driver's licence exam preparation (not for credit) | 13.1210 | early childhood education and teaching (Master's degree) |
| 13.1304 | driving instructor | 13.1210 | early childhood education and teaching (university) |
| 13.1304 | driving school instructor | 13.0414 | early childhood education school principal |
| 36.0207 | drone pilot certificate - advanced (not for credit) | 13.1015 | early childhood education special needs |
| 49.0109 | drone pilot certificate - advanced | 13.1210 | early childhood education teacher (Bachelor degree) |
| 36.0207 | drone pilot certificate - basic (not for credit) | 13.1210 | early childhood education teacher (Master's degree) |
| 49.0109 | drone pilot certificate - basic | 13.1501 | early childhood education teacher assistant/aide |
| 51.1501 | drug and alcohol counselling | 13.1210 | early childhood education teaching (Bachelor degree) |
| 51.2003 | drug design | 19.0709 | early childhood education teaching (college) |
| 60.0809 | drug information pharmacy - fellowship | 13.1210 | early childhood education teaching (Master's degree) |
| 60.0809 | drug information pharmacy - residency | 13.0414 | early childhood educational program director |
| 19.0999 | dry cleaning and clothing maintenance | 13.0414 | early childhood educational program principal |
| 19.0999 | dry cleaning | 19.0709 | early childhood educator assistant |
| 46.0404 | drywall and acoustical mechanic | 13.0414 | early childhood program administration |
| 46.0404 | drywall finisher and plasterer | 13.0414 | early childhood program management |
| 46.0404 | drywall finishing | 13.1015 | early childhood special education teaching |
| 46.0404 | drywall installation | 13.1015 | early childhood special education |
| 46.0404 | drywall installer and finisher | 42.2814 | early intensive behavioural intervention |
| 46.0404 | drywall taping | 50.0903 | early music performance |
| 46.0404 | drywall, acousting and lathing applicator | 13.1337 | Earth science teacher education |
| 46.0404 | drywaller | 13.1337 | Earth science teacher |
| 46.0404 | drywalling | 40.0601 | Earth science |
| 19.0710 | DSW | 30.3801 | Earth system science |
| 16.0504 | Dutch language and literature | 30.3801 | Earth systems science |
| 16.0504 | Dutch language | 49.0202 | earthmoving equipment operation |
| 16.0504 | Dutch literature | 16.0300 | East Asian languages and literature |
| 16.0504 | Dutch | 16.0300 | East Asian languages |
| 47.0101 | DVD player repair | 16.0300 | East Asian linguistics |
| 19.0904 | dye chemistry | 16.0300 | East Asian literature |
| E | | 05.0104 | East Asian studies |
| 19.0706 | early child development | 05.0105 | East European studies |
| 19.0711 | early childhood and family studies | 38.0203 | Eastern Christian studies |
| 19.0706 | early childhood development | 05.0105 | Eastern European studies |
| 13.1210 | early childhood education (Bachelor degree) | | |
| 19.0709 | early childhood education (college) | | |
| 13.1210 | early childhood education (Master's degree) | | |

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| 38.0199 | Eastern philosophy | 13.0401 | education administration |
| 38.0299 | Eastern religions | 13.1501 | education assistant |
| 38.0299 | Eastern religious traditions | 13.1101 | education counselling |
| 52.0208 | e-business management | 13.0413 | education entrepreneurship |
| 52.0208 | e-business | 13.0203 | education for First Nations and Inuit |
| 39.0601 | ecclesiastic theology | 13.1101 | education guidance |
| 39.0802 | ecclesiastical law | 13.1009 | education of blind individuals |
| 19.0709 | ECE (college) | 13.1003 | education of deaf individuals |
| 13.1210 | ECE (university) | 13.1004 | education of exceptional children |
| 51.0902 | ECG technician | 13.1004 | education of gifted and talented individuals |
| 51.0902 | ECG technologist | 13.1003 | education of hearing-impaired individuals |
| 51.0902 | ECG technology | 13.1017 | education of individuals in elementary special education programs |
| 03.0199 | ecological restoration and rehabilitation | 13.1018 | education of individuals in intermediate school special education programs |
| 03.0199 | ecological restoration | 13.1018 | education of individuals in junior high school special education programs |
| 26.1310 | ecology and evolutionary biology | 13.1018 | education of individuals in middle school special education programs |
| 26.1301 | ecology | 13.1019 | education of individuals in secondary special education programs |
| 11.0202 | e-commerce applications development | 13.1014 | education of individuals who are developmentally delayed |
| 52.0208 | e-commerce management | 13.1013 | education of individuals with autism |
| 52.0208 | e-commerce | 13.1005 | education of individuals with emotional disturbances |
| 45.0603 | econometrics | 13.1006 | education of individuals with intellectual disabilities |
| 43.0405 | economic crime investigation | 13.1007 | education of individuals with multiple disabilities |
| 45.0604 | economic development | 13.1008 | education of individuals with orthopedic and other physical health impairments |
| 09.0405 | economic journalism | 13.1011 | education of individuals with specific learning disabilities |
| 45.0601 | economic sciences | 13.1012 | education of individuals with speech or language impairments |
| 45.0601 | economic studies | 13.1016 | education of individuals with traumatic brain injuries |
| 30.3901 | economics and computer science | 13.1009 | education of individuals with vision impairments |
| 30.4001 | economics and foreign language | 13.1006 | education of intellectually-impaired individuals |
| 30.4001 | economics and foreign literature | 13.1003 | education of the deaf |
| 30.4001 | economics and French language | 44.0502 | education policy studies |
| 30.4001 | economics and Italian language | 13.1315 | education reading specialist |
| 30.4001 | economics and Japanese language | 13.0101 | education |
| 30.4901 | economics and mathematics | | |
| 30.4001 | economics and Russian language | | |
| 30.4001 | economics and Spanish | | |
| 13.1317 | economics education | | |
| 30.5101 | economics, politics, and philosophy | | |
| 45.0601 | economics | | |
| 03.0201 | ecosystem management | | |
| 26.1301 | ecosystem science | | |
| 03.0103 | ecosystem studies | | |
| 03.0207 | ecotourism | | |
| 26.1006 | ecotoxicology | | |
| 22.0305 | editing court reporter transcripts | | |

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| 13.0401 | educational administration and foundations | 46.0301 | electrical and power transmission installation |
| 13.0401 | educational administration and policy | 46.0301 | electrical and power transmission installer |
| 13.0401 | educational administration | 15.1305 | electrical CAD |
| 13.1101 | educational and career counselling | 15.1305 | electrical drafting |
| 13.0604 | educational assessment | 15.0303 | electrical engineering technician |
| 13.1501 | educational assistant | 15.0303 | electrical engineering technology |
| 13.0901 | educational contexts | 14.1001 | electrical engineering |
| 13.0601 | educational evaluation and research | 47.0101 | electrical equipment installation and repair |
| 13.0901 | educational foundations | 15.1305 | electrical facility drafting technologist |
| 13.0401 | educational leadership and policy | 15.0404 | electrical instrumentation |
| 13.0401 | educational leadership studies | 47.0101 | electrical maintenance |
| 13.0401 | educational leadership | 47.0101 | electrical motor and equipment repairer - winding |
| 13.0604 | educational measurement | 47.0101 | electrical motor system electrician |
| 13.0501 | educational media | 47.0101 | electrical motor system mechanic |
| 44.0502 | educational policy analysis | 47.0101 | electrical motor system technician |
| 44.0502 | educational policy studies | 47.0101 | electrical motor systems technician |
| 44.0502 | educational policy | 14.4802 | electrical power engineering |
| 42.2806 | educational psychology | 46.0303 | electrical power lineman/linewoman |
| 13.0601 | educational research | 14.4802 | electrical power plant engineering |
| 13.0603 | educational statistics and research methods | 47.0101 | electrical repair |
| 13.0101 | educational studies | 47.0101 | electrical rewind mechanic |
| 13.0411 | educational system administration | 46.0301 | electrical systems installation |
| 13.0501 | educational technology | 15.0303 | electrical technician |
| 13.0604 | educational testing | 15.0303 | electrical technology |
| 13.0101 | educational theory | 15.0303 | electrical, electronic and communications engineering technician |
| 13.0501 | educational uses of the computer | 15.0303 | electrical, electronic and communications engineering technology |
| 13.0404 | educational, instructional and curriculum supervision | 46.0302 | electrician |
| 51.0903 | EEG technician | 50.0904 | electroacoustic composition |
| 30.2299 | egyptology | 51.0902 | electrocardiograph technician |
| 51.0902 | EKG technician | 51.0902 | electrocardiograph technology |
| 16.1103 | Elamite | 14.1001 | electrodynamics engineering |
| 22.0219 | elder law (graduate level) | 15.0399 | electrodynamics technology |
| 47.0101 | electric motor system technician | 40.0899 | electrodynamics |
| 47.0101 | electric motor systems technician | 51.0903 | electroencephalographic technician |
| 47.0101 | electric motor winder | 51.0903 | electroencephalographic technologist |
| 47.0614 | electric vehicle service technician | 51.0903 | electroencephalographic technology |
| 15.9999 | electrical and computer engineering technology | 12.0404 | electrologist |
| 14.4701 | electrical and computer engineering | 12.0404 | electrology |
| 14.1001 | electrical and electronic engineering | 12.0404 | electrolysis technician |
| 14.1001 | electrical and electronics engineering | 12.0404 | electrolysis |

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| 15.0403 | electromechanical engineering technician | 13.0408 | elementary school administration |
| 15.0403 | electromechanical engineering technology | 13.0408 | elementary school principal |
| 14.4101 | electromechanical engineering | 13.1202 | elementary school teacher |
| 14.4101 | electromechanical systems engineering | 13.1202 | elementary teacher training |
| 15.0403 | electromechanical technician | 47.0699 | elevating platform mechanics |
| 15.0403 | electromechanical technology | 46.9999 | elevator constructor |
| 51.0903 | electroneurodiagnostic technologist | 46.9999 | elevator installation |
| 51.0903 | electroneurodiagnostic technology | 46.9999 | elevator mechanic |
| 14.1099 | electronic and communications engineering | 46.9999 | elevator technology |
| 14.4701 | electronic and computer engineering | 52.1404 | e-marketing |
| 52.0208 | electronic commerce management | 12.0303 | embalmer |
| 52.0208 | electronic commerce | 12.0303 | embalming |
| 11.0301 | electronic data processing | 26.0404 | embryology |
| 15.0303 | electronic design technology | 43.0302 | emergency and disaster mitigation |
| 15.0303 | electronic engineering technician | 51.0810 | emergency care attendant |
| 15.0303 | electronic engineering technology | 43.0399 | emergency communications and response |
| 14.1001 | electronic engineering | 43.0399 | emergency communications operator |
| 47.0101 | electronic maintenance | 43.0399 | emergency communications |
| 52.1404 | electronic marketing | 43.0302 | emergency management |
| 10.0303 | electronic prepress | 51.0810 | emergency medical care attendant |
| 10.0303 | electronic publishing | 51.0810 | emergency medical responder (EMR) |
| 47.0106 | electronic service technician (consumer products) | 61.0603 | emergency medical services - fellowship |
| 15.0303 | electronic systems technician | 51.0810 | emergency medical technician - ambulance (EMT-A) |
| 15.0303 | electronic technician | 51.0904 | emergency medical technician - paramedic (EMT-P) |
| 15.1305 | electronics drafting | 51.0810 | emergency medical technician (ambulance) |
| 15.1305 | electronics CAD | 51.0904 | emergency medical technician (paramedic) |
| 13.1320 | electronics education | 51.0904 | emergency medical technology - paramedic (EMT-P) |
| 14.1001 | electronics engineering | 61.0601 | emergency medicine - residency |
| 47.0101 | electronics equipment installation and repair | 61.0103 | emergency medicine and anesthesiology - combined specialty |
| 47.0101 | electronics repair | 60.0711 | emergency medicine nurse practitioner - fellowship |
| 13.1320 | electronics teaching | 60.0711 | emergency medicine nurse practitioner - residency |
| 47.0106 | electronics technician (consumer products) | 60.0810 | emergency medicine pharmacy - fellowship |
| 15.0303 | electronics technician | 60.0810 | emergency medicine pharmacy - residency |
| 14.1003 | electro-optic engineering | 60.0909 | emergency medicine physician assistant - fellowship |
| 40.0807 | electro-optics | 60.0909 | emergency medicine physician assistant - residency |
| 13.1501 | elementary education teacher assistant/aide | | |
| 13.1202 | elementary education | | |
| 13.1311 | elementary mathematics teacher education | | |
| 40.0804 | elementary particle physics | | |
| 13.0408 | elementary principal | | |

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| 60.0909 | emergency medicine physician associate - fellowship | 47.0701 | energy systems installation and repair technology |
| 60.0909 | emergency medicine physician associate - residency | 47.0701 | energy systems installation technician |
| 61.0103 | emergency medicine/anesthesiology - combined specialty | 47.0701 | energy systems installation technology |
| 60.0711 | emergency nurse practitioner | 47.0701 | energy systems installation |
| 51.3816 | emergency nurse | 47.0701 | energy systems maintenance technician |
| 51.3816 | emergency nursing | 47.0701 | energy systems maintenance technology |
| 43.0302 | emergency preparedness and technology | 47.0701 | energy systems maintenance |
| 51.3816 | emergency room nurse | 15.1701 | energy systems management technology |
| 51.3816 | emergency room nursing | 47.0701 | energy systems repair technician |
| 43.0399 | emergency services communications | 47.0701 | energy systems repair technology |
| 43.0399 | emergency telecommunications | 47.0701 | energy systems repair |
| 22.0220 | employee benefits law (graduate level) | 15.1701 | energy systems technician |
| 51.1512 | end of life care | 15.1701 | energy systems technology |
| 61.0806 | endocrinology and metabolism - fellowship | 47.0615 | engine machinist |
| 60.0712 | endocrinology nurse practitioner - fellowship | 47.0615 | engine rebuilding |
| 60.0712 | endocrinology nurse practitioner - residency | 14.4401 | engineering chemistry |
| 61.0806 | endocrinology, diabetes and metabolism - fellowship | 15.1399 | engineering design and drafting technology |
| 26.0904 | endocrinology | 15.1502 | engineering design |
| 60.0103 | endodontics - residency | 15.1301 | engineering drafting technology |
| 51.0506 | endodontics (Cert., MS, MSc, PhD) | 38.0104 | engineering ethics |
| 60.0103 | endodontics specialty - residency | 15.1301 | engineering graphics and design |
| 51.0506 | endodontist (Cert., MS, MSc, PhD) | 15.1301 | engineering graphics technology |
| 51.0506 | endodontology (Cert., MS, MSc, PhD) | 15.1501 | engineering management |
| 03.0209 | energy and environmental policy | 14.1101 | engineering mechanics |
| 52.9999 | energy asset management | 14.1201 | engineering physics |
| 14.4801 | energy engineering | 14.1301 | engineering science |
| 22.0101 | energy law (except graduate level) | 15.0000 | engineering technician |
| 22.0207 | energy law (graduate level) | 15.0000 | engineering technologist |
| 15.1701 | energy management and systems technician | 15.0000 | engineering technology |
| 15.1701 | energy management and systems technology | 14.0101 | engineering |
| 15.1701 | energy management technician | 23.1405 | English adolescent literature |
| 15.1701 | energy management technology | 32.0109 | English as a second language (not for credit) |
| 15.1701 | energy systems engineering technician | 16.1701 | English as a second language |
| 15.1701 | energy systems engineering technology | 23.1303 | English biomedical writing |
| 14.4801 | energy systems engineering | 23.1303 | English business writing |
| 47.0701 | energy systems installation and repair technician | 23.1405 | English children's literature |
| | | 23.1301 | English composition |
| | | 23.1302 | English creative fiction writing |
| | | 23.1302 | English creative non-fiction |
| | | 23.1302 | English creative writing |
| | | 13.1305 | English education |

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| 23.1401 | English general literature | 50.1001 | entertainment management |
| 30.4501 | English language and history | 26.0702 | entomology |
| 23.0101 | English language and literature | 52.0701 | entrepreneurial studies |
| 13.1305 | English language arts education | 22.0218 | entrepreneurship law (graduate level) |
| 23.0101 | English language, literature and linguistics | 13.1303 | entrepreneurship teacher education |
| 23.0101 | English language | 52.0701 | entrepreneurship |
| 23.1401 | English literary studies | 30.9999 | environment and business |
| 30.4001 | English literature and economics | 03.0101 | environmental and conservation science |
| 13.1305 | English literature education | 30.4401 | environmental and human geography |
| 23.1405 | English literature for children and young adults | 30.4401 | environmental and physical geography |
| 23.1401 | English literature | 09.0407 | environmental and science journalism |
| 23.1303 | English medical writing | 04.0401 | environmental architecture |
| 23.1303 | English professional writing | 50.1101 | environmental art |
| 23.1304 | English rhetoric and composition | 26.1305 | environmental biology |
| 23.1304 | English rhetoric and writing studies | 40.0509 | environmental chemistry |
| 23.1304 | English rhetoric and writing | 03.0199 | environmental conservation and reclamation |
| 23.1304 | English rhetoric | 03.0101 | environmental conservation |
| 23.1304 | English rhetorical studies | 04.0401 | environmental design studies |
| 23.1303 | English scientific writing | 04.0401 | environmental design |
| 23.1304 | English speech and rhetoric | 03.0204 | environmental economics |
| 23.1304 | English speech and rhetorical studies | 13.1338 | environmental education teacher |
| 23.0101 | English studies | 13.1338 | environmental education |
| 13.1305 | English teacher education | 03.0209 | environmental energy policy |
| 13.1305 | English teacher | 15.0507 | environmental engineering technician |
| 13.1305 | English teaching | 15.0507 | environmental engineering technology |
| 23.1303 | English technical and professional writing | 14.1401 | environmental engineering |
| 23.1303 | English technical writing | 30.4101 | environmental geochemistry |
| 23.9999 | English writing and literature | 30.4401 | environmental geography |
| 23.1301 | English writing | 30.4101 | environmental geology |
| 23.0101 | English | 30.4401 | environmental geomatics |
| 01.1004 | enology | 30.4101 | environmental geoscience |
| 60.0910 | ENT surgery physician assistant - fellowship | 14.1401 | environmental health engineering |
| 60.0910 | ENT surgery physician assistant - residency | 51.3815 | environmental health nurse |
| 60.0910 | ENT surgery physician associate - fellowship | 51.3815 | environmental health nursing |
| 60.0910 | ENT surgery physician associate - residency | 51.2202 | environmental health |
| 22.0216 | enterprise risk management and compliance law (graduate level) | 01.0601 | environmental horticulture technology |
| 50.1001 | entertainment business | 09.0407 | environmental journalism |
| 22.0215 | entertainment law (graduate level) | 01.0605 | environmental landscape management |
| | | 22.0101 | environmental law (except graduate level) |
| | | 22.0207 | environmental law (graduate level) |
| | | 03.0208 | environmental law enforcement |
| | | 03.0201 | environmental management and policy |

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| 14.1401 | environmental management engineering | 01.0307 | equine reproduction technician |
| 03.0201 | environmental management | 01.0307 | equine science |
| 26.1305 | environmental microbiology | 01.0507 | equine studies |
| 03.0208 | environmental monitoring and enforcement | 01.8103 | equine surgery and medicine |
| 15.0599 | environmental performance of organizations | 01.0307 | equine technology |
| 03.0104 | environmental physics | 01.9999 | equine welfare |
| 03.0201 | environmental policy analysis | 51.2313 | equine-assisted therapy |
| 03.0201 | environmental policy | 47.0000 | equipment mechanic |
| 15.0507 | environmental protection technician | 47.0000 | equipment repair |
| 15.0507 | environmental protection technology | 45.9999 | equity studies |
| 42.2808 | environmental psychology | 46.0406 | erector mechanic (glazier) |
| 51.2202 | environmental public health | 51.2399 | ergonomic studies |
| 30.4401 | environmental resource science and geography | 14.3501 | ergonomics engineering |
| 03.0103 | environmental resource studies | 16.1301 | Erse |
| 30.4401 | environmental science and geography | 16.1701 | ESL |
| 15.0507 | environmental science technology | 12.0409 | esthetician |
| 03.0104 | environmental science | 12.0409 | esthetics |
| 01.1299 | environmental soil science | 16.1502 | Estonian |
| 30.4401 | environmental studies and geography | 38.0103 | ethics studies |
| 13.1338 | environmental studies teacher | 38.0103 | ethics |
| 03.0103 | environmental studies | 05.0200 | ethnic and pluralism studies |
| 30.3301 | environmental sustainability | 05.0200 | ethnic studies |
| 15.0501 | environmental systems engineering technology | 45.0204 | ethnology |
| 03.0101 | environmental systems | 50.0905 | ethnomusicology |
| 13.1338 | environmental teacher education | 26.0708 | ethology |
| 13.1338 | environmental teacher | 16.1299 | Etruscan |
| 15.0507 | environmental technician | 50.0914 | euphonium |
| 15.0507 | environmental technology | 05.0199 | European and Russian studies |
| 26.1006 | environmental toxicology | 05.0106 | European civilization |
| 26.1311 | epidemiology and biostatistics | 54.0103 | European cultural history |
| 26.1309 | epidemiology | 30.4501 | European history and languages |
| 61.1104 | epilepsy - fellowship | 30.4501 | European history and literature |
| 38.0199 | epistemology | 54.0103 | European history |
| 01.0507 | equestrian coaching | 05.0106 | European integration studies |
| 01.0507 | equestrian sports | 38.0199 | European philosophy |
| 01.0507 | equestrian studies | 54.0103 | European social history |
| 01.0507 | equestrian training | 05.0106 | European studies |
| 01.0507 | equine care | 05.0199 | European, Russian and Eurasian studies |
| 01.0307 | equine management | 52.0907 | events and convention coordination |
| 01.0504 | equine massage therapy | 52.0907 | events and convention management |
| | | 26.1303 | evolutionary biology |
| | | 52.0402 | executive assistant |
| | | 52.1006 | executive coaching |

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| 43.0120 | executive protection | 22.0219 | family law (graduate level) |
| 52.0402 | executive secretary | 13.1308 | family life education |
| 26.0908 | exercise physiology and kinesiology | 61.0701 | family medicine - residency |
| 26.0908 | exercise physiology | 61.0104 | family medicine and emergency medicine - combined specialty |
| 31.0505 | exercise science | 61.0105 | family medicine and osteopathic neuromusculoskeletal medicine - combined specialty |
| 47.0612 | exhaust systems repair | 61.0106 | family medicine and preventive medicine - combined specialty |
| 38.0199 | existentialism | 61.0107 | family medicine and psychiatry - combined specialty |
| 51.1401 | experimental medicine (MS, MSc, PhD) | 60.0713 | family medicine nurse practitioner - fellowship |
| 26.0910 | experimental pathology | 60.0713 | family medicine nurse practitioner - residency |
| 40.0801 | experimental physics | 60.0811 | family medicine pharmacy - fellowship |
| 42.2704 | experimental psychology | 60.0811 | family medicine pharmacy - residency |
| 46.0505 | explosives technician | 60.0911 | family medicine physician assistant - fellowship |
| 52.0907 | exposition, convention and trade show management | 60.0911 | family medicine physician assistant - residency |
| 15.0799 | exposure device operator (EDO) | 60.0911 | family medicine physician associate - fellowship |
| 13.1201 | extension education teacher | 61.0104 | family medicine/emergency medicine - combined specialty |
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| 19.0906 | fabric consultant | 61.0105 | family medicine/osteopathic neuromusculoskeletal medicine - combined specialty |
| 19.0902 | fabric design | 61.0106 | family medicine/preventive medicine - combined specialty |
| 12.0408 | facial skin care | 61.0107 | family medicine/psychiatry - combined specialty |
| 12.0408 | facial therapy | 60.0713 | family nurse practitioner - fellowship |
| 12.0408 | facial treatment | 60.0713 | family nurse practitioner - residency |
| 12.0408 | facialist | 60.0713 | family nurse practitioner |
| 19.0604 | facilities management | 51.3805 | family practice nurse |
| 46.0401 | facilities mechanic | 51.3805 | family practice nursing |
| 46.0401 | facilities technician | 42.2811 | family psychology |
| 19.0604 | facility planning | 19.0704 | family relations |
| 16.0599 | Faeroese | 19.0401 | family resource management |
| 60.0911 | family medicine physician associate - residency | 19.0101 | family science |
| 19.0701 | family and child studies | 19.0707 | family services |
| 19.0707 | family and community services | 19.0101 | family social sciences |
| 19.0202 | family and consumer sciences communications | 13.1308 | family studies education |
| 13.1308 | family and consumer sciences teacher education | 19.1001 | family studies |
| 19.0101 | family and consumer sciences | | |
| 13.1308 | family and consumer studies teaching | | |
| 19.0201 | family and consumer studies | | |
| 51.1505 | family counselling | | |
| 36.0199 | family history (not for credit) | | |
| 54.0199 | family history | | |

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|----------------|--|----------------|--|
| 19.0704 | family systems | 14.9999 | fermentation engineering |
| 51.1505 | family therapy | 01.1005 | fermentation science |
| 01.0104 | farm and ranch management | 01.1005 | fermentation technician |
| 01.0301 | farm business management | 01.1005 | fermentation technology |
| 01.0301 | farm business | 01.1005 | fermented food production |
| 01.1299 | farm drainage | 52.0907 | festivals/community events management |
| 01.0205 | farm equipment mechanic | 51.1599 | fetal alcohol spectrum disorder (FASD) |
| 01.0204 | farm equipment operator | 51.1599 | fetal alcohol spectrum disorder |
| 01.0205 | farm equipment service technician | 50.0712 | fibre arts |
| 01.0205 | farm equipment technician | 46.0303 | fibre optics technician |
| 01.0205 | farm machinery mechanic | 47.0616 | fibreglass boat repair |
| 01.0205 | farm machinery repair | 15.0699 | fibreglass technician |
| 01.0205 | farm machinery technician | 01.0304 | field crop production |
| 01.0104 | farm management | 31.0501 | figure skating coaching |
| 01.0105 | farm supplies retailing and wholesaling | 31.0501 | figure skating |
| 01.0301 | farming | 16.1401 | Fijian |
| 48.0599 | farrier blacksmith | 05.0206 | Filipino American studies |
| 01.0509 | farrier science | 05.0206 | Filipino Canadian studies |
| 01.0509 | farrier | 16.1404 | Filipino language and literature |
| 01.0509 | farriery | 16.1404 | Filipino language |
| 51.1599 | FASD | 16.1404 | Filipino literature |
| 19.0906 | fashion and fabric consultant | 16.1404 | Filipino |
| 19.0906 | fashion consultant | 50.0602 | film and video production |
| 50.0407 | fashion design and technology | 50.0601 | film and video studies |
| 50.0407 | fashion design | 50.0602 | film directing |
| 50.0407 | fashion designer | 50.0601 | film history, theory, and criticism |
| 09.0499 | fashion journalism | 50.0601 | film history |
| 22.0215 | fashion law (graduate level) | 22.0215 | film law (graduate level) |
| 19.0905 | fashion management and design | 50.0602 | film making |
| 19.0905 | fashion management | 50.0602 | film production |
| 52.1902 | fashion marketing | 50.0601 | film studies |
| 52.1902 | fashion merchandising | 10.0201 | film technician |
| 52.1903 | fashion modelling | 50.0601 | film theory |
| 50.0407 | fashion patternmaker | 52.0801 | finance |
| 19.0902 | fashion production | 52.0302 | financial accounting |
| 52.1904 | fashion retail | 52.0804 | financial advisor |
| 19.0906 | fashion sales and consulting | 30.7104 | financial analytics |
| 52.1904 | fashion sales representative | 52.0303 | financial audit |
| 52.1701 | Fellow of the Insurance Institute of Canada (FIIC) | 52.0601 | financial economics |
| 38.0199 | feminist philosophy | 43.0405 | financial forensics |
| 05.0207 | feminist studies | 43.0405 | financial fraud investigation |
| 01.1005 | fermentation and microbial technology | 27.0399 | financial insurance |
| | | 52.0807 | financial investments |

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| 09.0405 | financial journalism | 43.0204 | fire systems technology |
| 22.0205 | financial law (graduate level) | 47.0402 | firearms repair |
| 52.0801 | financial management | 36.0121 | firearms safety (not for credit) |
| 27.0305 | financial mathematics | 36.0121 | firearms safety and handling (not for credit) |
| 52.0804 | financial planner | 36.0121 | firearms training (not for credit) |
| 52.0804 | financial planning | 36.0121 | firearms training and safety (not for credit) |
| 52.0810 | financial risk management | 43.0203 | firefighter training |
| 52.0807 | financial securities | 43.0203 | firefighting technology |
| 52.0804 | financial services management | 43.0203 | firefighting |
| 52.1908 | financial services marketing operations | 46.0414 | firestopping insulator |
| 52.1908 | financial services marketing | 34.0199 | first aid (not for credit) |
| 52.0804 | financial services | 15.0806 | first class marine engineer |
| 50.0703 | fine art history | 43.0107 | First Nations constable |
| 50.0708 | fine art painting | 44.0499 | First Nations housing management |
| 13.1302 | fine arts education | 44.0499 | First Nations housing manager |
| 50.1002 | fine arts management | 44.0499 | First Nations housing professional |
| 13.1302 | fine arts teaching | 16.1001 | First Nations language |
| 50.0702 | fine arts | 44.0401 | First Nations public administration |
| 46.0201 | finishing carpentry | 05.0202 | First Nations studies |
| 16.1502 | Finnish language and literature | 13.0203 | First Nations teacher education |
| 16.1502 | Finnish literature | 26.0709 | fish and wildlife biology |
| 16.1502 | Finnish | 03.0208 | fish and wildlife law enforcement |
| 47.0110 | fire alarm and protection system | 01.0303 | fish culture |
| 47.0110 | fire alarm technician | 01.0303 | fish farming |
| 43.0201 | fire inspection | 26.1304 | fisheries biology |
| 43.0205 | fire investigation | 03.0301 | fisheries development |
| 43.0201 | fire prevention and safety | 03.0301 | fisheries management |
| 43.0201 | fire prevention education | 03.0301 | fisheries science |
| 43.0201 | fire prevention technology | 49.0303 | fisherman/fisherwoman |
| 43.0201 | fire prevention | 03.0301 | fishing and fisheries management |
| 15.9999 | fire protection engineering technician | 03.0301 | fishing and fisheries sciences |
| 15.9999 | fire protection engineering technologist | 49.0303 | fishing captain |
| 43.0201 | fire protection inspection and testing | 49.0303 | fishing master |
| 43.0201 | fire protection technology | 49.0303 | fishing |
| 43.0201 | fire protection | 31.0501 | fitness and health |
| 43.0201 | fire risk prevention and inspection | 31.0507 | fitness instructor |
| 14.9999 | fire safety engineering | 31.0507 | fitness leadership |
| 43.0201 | fire safety techniques | 31.0507 | fitness technician |
| 43.0201 | fire safety | 31.0507 | fitness trainer |
| 43.0203 | fire science technology | 31.0507 | fitness training |
| 43.0203 | fire science | 49.0207 | flagging and traffic control |
| 43.0202 | fire service administration | 49.0207 | flagging |
| 43.0202 | fire service management | 49.0207 | flagman/flagwoman |

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| 49.0207 | flags person | 01.0401 | food inspection |
| 49.0207 | flagsman/flagswoman | 12.0505 | food preparation |
| 16.0504 | Flemish language and literature | 14.0301 | food processing engineering |
| 16.0504 | Flemish language | 01.1002 | food processing technology |
| 16.0504 | Flemish literature | 01.0401 | food products processing |
| 16.0504 | Flemish | 12.0599 | food safe |
| 10.0307 | flexographic press operator | 01.1001 | food safety |
| 49.0106 | flight attendant | 01.1001 | food science |
| 49.0102 | flight engineer | 12.0508 | food service worker |
| 49.0108 | flight instructor | 19.0505 | food services management |
| 49.0106 | flight steward/stewardess | 01.1002 | food technology |
| 46.0413 | floor covering installation | 19.0501 | food, nutrition and health |
| 46.0413 | floor covering installer | 12.0599 | foodsafety |
| 46.0413 | floor laying | 19.0505 | foodservice systems administration |
| 46.0413 | flooring and hardwood technician | 19.0505 | foodservice systems management |
| 36.0122 | floral arrangement (not for credit) | 13.1306 | foreign language teacher education |
| 01.0608 | floral arrangement | 13.1306 | foreign language teacher |
| 36.0122 | floral design (not for credit) | 16.0101 | foreign languages and literature |
| 01.0608 | floral design | 16.0101 | foreign languages |
| 01.0608 | floriculture | 22.0202 | foreign lawyer trainee program (graduate level) |
| 01.0608 | florist | 16.0101 | foreign literature |
| 01.0608 | floristry operations and management | 45.0901 | foreign policy and diplomacy |
| 01.0608 | floristry | 52.1101 | foreign trade |
| 01.0401 | flour milling | 43.0405 | forensic accounting |
| 36.0122 | flower arranging (not for credit) | 45.0205 | forensic anthropology |
| 47.0302 | fluid power and control mechanic | 43.0405 | forensic auditing |
| 15.1103 | fluid power technician | 40.0510 | forensic chemistry |
| 15.1103 | fluid power technology | 43.0406 | forensic identification |
| 50.0915 | flute | 43.0403 | forensic investigation - computer crime |
| 49.0108 | flying instructor | 51.3824 | forensic nurse death investigator |
| 50.0201 | folk art and artisanry | 51.3824 | forensic nurse |
| 05.0209 | folklore and folklife | 51.3824 | forensic nursing science |
| 05.0209 | folklore and mythology | 51.3824 | forensic nursing |
| 05.0209 | folklore studies | 61.1807 | forensic pathology - fellowship |
| 01.0102 | food and agribusiness management | 61.2405 | forensic psychiatry - fellowship |
| 12.0507 | food and beverage service | 42.2812 | forensic psychology |
| 22.0299 | food and drug law (graduate level) | 43.0406 | forensic science and technology |
| 01.1005 | food and fermentation technology | 43.0406 | forensic science technology |
| 19.0504 | food and human nutrition | 43.0406 | forensic science |
| 19.0501 | food and nutrition | 44.0703 | forensic social work |
| 01.8103 | food animal surgery and medicine | 31.0601 | forest adventure course facilitator |
| 01.1001 | food chemistry | 43.0206 | forest arson investigation and prevention |
| 14.0301 | food engineering | | |

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|----------------|--|----------------|---|
| 03.0502 | forest biology | 52.0702 | franchise operations |
| 03.0502 | forest ecology | 52.0702 | franchising |
| 03.0204 | forest economics | 43.0405 | fraud and money-laundering |
| 14.3401 | forest engineering | 43.0405 | fraud examination and forensic accounting |
| 03.0502 | forest entomology | 52.0209 | freight forwarding |
| 43.0206 | forest fire investigation and prevention | 55.1405 | French adolescent literature |
| 43.0206 | forest firefighting | 32.0109 | French as a second language (not for credit) |
| 03.0502 | forest genetics | 16.1702 | French as a second language |
| 03.0506 | forest management | 55.1303 | French business writing |
| 03.0502 | forest pathology | 55.1405 | French children's literature |
| 03.0509 | forest products processing technology | 55.1301 | French composition |
| 03.0511 | forest products technology | 55.1302 | French creative writing |
| 03.0208 | forest ranger | 13.1325 | French education |
| 03.0207 | forest recreation technician | 55.1401 | French general literature |
| 03.0506 | forest resource management | 54.0103 | French history |
| 03.0510 | forest resources production and management | 30.4501 | French language and history |
| 03.0510 | forest resources production | 55.0101 | French language and literature |
| 49.0202 | forest road machine operator | 13.1325 | French language arts education |
| 03.0502 | forest science | 13.1325 | French language teacher education |
| 03.0511 | forest technician | 55.0101 | French language, literature and linguistics |
| 03.0511 | forest technology | 55.0101 | French language |
| 12.0599 | forest to fork | 55.1401 | French literary studies |
| 03.0501 | forester | 13.1325 | French literature education |
| 03.0511 | forestry crew | 55.1405 | French literature for children and young adults |
| 03.0208 | forestry law enforcement | 55.1401 | French literature |
| 03.0506 | forestry management | 55.1303 | French professional writing |
| 03.0506 | forestry resource management | 55.1304 | French rhetoric and composition |
| 03.0511 | forestry technician | 55.1304 | French rhetoric and writing studies |
| 03.0511 | forestry technology | 55.1304 | French rhetoric and writing |
| 03.0511 | forestry worker | 55.1304 | French rhetoric |
| 03.0501 | forestry | 55.1303 | French scientific writing |
| 49.0209 | fork lift operation | 55.1304 | French speech and rhetoric studies |
| 49.0209 | fork lift operator | 05.0124 | French studies |
| 49.0209 | forklift driver | 13.1325 | French teacher |
| 47.0699 | forklift mechanic | 13.1325 | French teaching |
| 49.0209 | forklift operation | 55.1303 | French technical and business writing |
| 49.0209 | forklift operator | 55.1303 | French technical writing |
| 49.0209 | forklift truck operator | 55.9999 | French writing and literature |
| 16.0399 | Formosan | 55.1301 | French writing |
| 14.4802 | fossil fuels thermal power engineering | 55.0101 | French |
| 15.0806 | fourth class marine engineer | 26.1304 | freshwater ecology |
| 46.0201 | framer (carpentry) | | |

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| 16.0599 | Frisian | 11.0204 | game engine programming |
| 16.0999 | Friulian | 50.0411 | game level design |
| 16.1702 | FSL | 11.0204 | game programming |
| 47.0699 | fuel and lube technician | 03.0208 | game warden |
| 52.0206 | fundraising management | 52.0908 | gaming and casino management |
| 52.0206 | fundraising | 12.0602 | gaming attendant |
| 12.0301 | funeral and allied health services | 22.0215 | gaming law and regulation (graduate level) |
| 12.0301 | funeral directing and embalming | 12.0602 | gaming table dealer |
| 12.0302 | funeral direction | 12.0602 | gaming table operator |
| 12.0301 | funeral director and embalmer | 01.0605 | garden design |
| 12.0301 | funeral director and mortician | 50.0407 | garment design |
| 12.0302 | funeral director | 47.0201 | gas and oil burner technician |
| 12.0302 | funeral home manager | 47.0106 | gas appliance technician |
| 12.0302 | funeral service education | 46.0502 | gas fitting |
| 12.0302 | funeral services director | 46.0502 | gas piping installation |
| 03.9999 | fur trade | 15.0903 | gas processing |
| 47.0201 | furnace installer and repairer | 46.0502 | gasfitter |
| 48.0702 | furniture - milled wood | 61.0807 | gastroenterology - fellowship |
| 48.0702 | furniture and related templates | 60.0714 | gastroenterology and hepatology nurse practitioner - fellowship |
| 48.0702 | furniture design | 60.0714 | gastroenterology and hepatology nurse practitioner - residency |
| 48.0702 | furniture making | 60.0715 | gastroenterology nurse practitioner - fellowship |
| 48.0702 | furniture repair | 60.0715 | gastroenterology nurse practitioner - residency |
| 48.0303 | furniture upholstery | | |
| 19.0999 | furrier | | |
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| 16.1301 | gaelic languages | 16.1301 | Gaulish |
| 10.0201 | gaffer | 05.0208 | gay and lesbian studies |
| 16.1301 | Galatian | 05.0208 | gay studies |
| 16.0999 | Galician | 53.0201 | GED certificate |
| 16.1301 | Gallic | 53.0201 | GED diploma |
| 11.0204 | game AI programming | 32.0202 | GED exam preparation (not for credit) |
| 50.0411 | game and interactive media design | 32.0202 | GED test preparation (not for credit) |
| 11.0204 | game artificial intelligence programming | 50.0713 | gemology |
| 50.0411 | game design and development | 05.0299 | gender studies |
| 11.0204 | game design and programming | 51.0914 | gene therapy |
| 50.0411 | game design | 36.0199 | genealogy (not for credit) |
| 50.0411 | game development - 3D modelling and motion capture | 54.0199 | genealogy |
| 11.0204 | game development advanced programming | 24.0102 | general arts and science |
| 11.0204 | game development and programming | 24.0102 | general arts |
| | | 52.0101 | general business studies |
| | | 52.0101 | general business |
| | | 46.0201 | general carpenter |
| | | 52.2001 | general construction estimating |

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| 46.0000 | general construction | 60.0716 | genetics nurse practitioner - residency |
| 43.0100 | general criminal justice and corrections | 51.1010 | genetics technologist |
| 15.1301 | general drafting | 51.1010 | genetics technology |
| 53.0201 | General Educational Development test (GED) | 26.0801 | genetics |
| 14.0101 | general engineering | 26.0807 | genome sciences |
| 53.0201 | general equivalency diploma | 26.0807 | genomics |
| 32.0201 | general exam preparation (not for credit) | 30.4201 | geoarchaeology |
| 53.0101 | general high school diploma | 30.4301 | geobiology |
| 54.0101 | general history | 40.0606 | geochemistry and petrology |
| 24.0103 | general humanities | 40.0602 | geochemistry |
| 48.0501 | general machinist | 40.0699 | geodesy |
| 52.0201 | general management | 14.3801 | geodetic engineering |
| 47.0000 | general mechanic | 40.0699 | geodetic sciences |
| 51.1201 | general medicine | 15.1102 | geodetic surveying |
| 60.0701 | general nurse practitioner - fellowship | 40.0699 | geodetics |
| 60.0701 | general nurse practitioner - residency | 14.0802 | geoenvironmental engineering |
| 60.0801 | general pharmacy - fellowship | 45.0702 | geographic information science (GIS) |
| 60.0801 | general pharmacy - residency | 45.0702 | geographic information science |
| 60.0901 | general physician assistant - fellowship | 45.0702 | geographic information systems (GIS) |
| 60.0901 | general physician assistant - residency | 45.0702 | geographic information systems |
| 60.0901 | general physician associate - fellowship | 45.0701 | geographic sciences |
| 60.0901 | general physician associate - residency | 45.1501 | geography and anthropology |
| 51.1201 | general physician | 30.4401 | geography and environmental management |
| 61.2201 | general podiatric medicine and surgery - residency | 30.4401 | geography and environmental science |
| 51.1201 | general practice | 30.4401 | geography and environmental studies |
| 51.1201 | general practitioner | 13.1332 | geography education |
| 42.0101 | general psychology | 13.1332 | geography teacher education |
| 30.0101 | general science | 13.1332 | geography teacher |
| 53.0101 | general secondary school diploma | 45.0701 | geography |
| 52.0401 | general secretarial | 30.4201 | geological archaeology |
| 43.0401 | general security science and technology | 30.4301 | geological biology |
| 24.0102 | general studies | 15.9999 | geological engineering technology |
| 24.0102 | general study | 14.3901 | geological engineering |
| 61.2701 | general surgery - residency | 40.0601 | geological science |
| 32.0201 | general test-taking skills (not for credit) | 40.0601 | geologist |
| 51.1509 | genetic counselling | 30.4201 | geology and archaeology |
| 51.1509 | genetic counsellor | 30.4301 | geology and biology |
| 14.0501 | genetic engineering | 30.4101 | geology and environmental science |
| 51.0914 | genetic therapy | 40.0603 | geology and physics |
| 01.1104 | genetics and plant breeding | 13.1337 | geology education |
| 60.0716 | genetics nurse practitioner - fellowship | 40.0601 | geology |
| | | 14.3801 | geomatics engineering |

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| 45.0702 | geomatics sciences | 61.0203 | geriatric medicine - fellowship |
| 45.0702 | geomatics technician | 61.0203 | geriatric medicine (internal medicine) - fellowship |
| 45.0702 | geomatics technology | 60.0717 | geriatric nurse practitioner |
| 45.0702 | geomatics | 51.3821 | geriatric nurse |
| 27.0104 | geometric analysis | 51.3821 | geriatric nursing |
| 27.0104 | geometry | 60.0812 | geriatric pharmacy - fellowship |
| 30.4301 | geomicrobiology | 60.0812 | geriatric pharmacy - residency |
| 14.3901 | geophysical engineering | 61.2406 | geriatric psychiatry - fellowship |
| 40.0603 | geophysics | 60.0912 | geriatrics physician assistant - fellowship |
| 16.1599 | Georgian | 60.0912 | geriatrics physician assistant - residency |
| 40.0601 | geoscience | 60.0912 | geriatrics physician associate - fellowship |
| 13.1337 | geosciences education | 60.0912 | geriatrics physician associate - residency |
| 43.0407 | geospatial intelligence (GEOINT) | 51.0513 | geriodontics (Cert., MS, MSc, PhD) |
| 43.0407 | geospatial intelligence | 30.4501 | German history and language |
| 14.0802 | geotechnical and geoenvironmental engineering | 30.4501 | German history and literature |
| 14.0802 | geotechnical engineering | 54.0103 | German history |
| 15.1706 | geothermal energy engineering technician | 30.4001 | German language and economics |
| 15.1706 | geothermal energy engineering technology | 16.0501 | German language and literature |
| 47.0706 | geothermal energy installation and repair technician | 13.1326 | German language teacher education |
| 47.0706 | geothermal energy installation and repair technology | 16.0501 | German language |
| 47.0706 | geothermal energy system installation and repair technician | 16.0501 | German linguistics |
| 47.0706 | geothermal energy system installation and repair technology | 16.0501 | German literature |
| 47.0706 | geothermal energy system installation technician | 16.0501 | German philology |
| 47.0706 | geothermal energy system installation technology | 38.0199 | German philosophy |
| 47.0706 | geothermal energy system installation | 05.0125 | German studies |
| 47.0706 | geothermal energy system maintenance technician | 13.1326 | German teacher |
| 47.0706 | geothermal energy system maintenance technology | 16.0501 | German |
| 47.0706 | geothermal energy system maintenance | 16.0500 | Germanic languages and literature |
| 47.0706 | geothermal energy system maintenance technician | 16.0500 | Germanic languages |
| 47.0706 | geothermal energy system maintenance technology | 16.0500 | Germanic linguistics |
| 47.0706 | geothermal energy system repair technician | 16.0500 | Germanic literature |
| 47.0706 | geothermal energy system repair technology | 16.0500 | Germanic philology |
| 47.0706 | geothermal energy system repair | 05.0125 | Germanic studies |
| 47.0706 | geothermal energy system repair technician | 51.0513 | gerodontics (Cert., MS, MSc, PhD) |
| 47.0706 | geothermal energy system repair technology | 60.0717 | gerontological nurse practitioner |
| 15.1706 | geothermal energy technician | 51.3821 | gerontological nurse |
| 15.1706 | geothermal energy technology | 51.3821 | gerontological nursing |
| 51.0513 | geriatric dentistry (Cert., MS, MSc, PhD) | 19.0702 | gerontological services |
| | | 60.0704 | gerontology acute care nurse practitioner - fellowship |
| | | 60.0704 | gerontology acute care nurse practitioner - residency |

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| 60.0705 | gerontology critical care nurse practitioner - fellowship | 32.0204 | graduate school entrance examination preparation (not for credit) |
| 60.0705 | gerontology critical care nurse practitioner - residency | 01.0401 | grain inspection |
| 60.0717 | gerontology nurse practitioner - fellowship | 52.0502 | grantsmanship |
| 60.0717 | gerontology nurse practitioner - residency | 01.1004 | grape growing |
| 30.1101 | gerontology | 10.0305 | graphic and printing equipment operator |
| 42.2809 | geropsychology | 50.0409 | graphic arts |
| 13.1004 | gifted education | 10.0302 | graphic communications management |
| 45.0702 | GIS | 10.0301 | graphic communications |
| 50.0799 | glass blower | 50.0409 | graphic design for print and web |
| 50.0799 | glass blowing | 50.0409 | graphic design technology |
| 46.0406 | glassworker (glazier) | 50.0409 | graphic design |
| 46.0406 | glazier - auto glass technician | 50.0410 | graphic illustration |
| 46.0406 | glazier | 10.0301 | graphic production and printing |
| 36.0202 | glider pilot licence (not for credit) | 10.0301 | graphic production |
| 52.1101 | global business | 30.7103 | graphic representation of data |
| 52.1101 | global commerce | 16.0601 | Greek language and literature |
| 45.0605 | global economics | 16.0601 | Greek language |
| 22.0214 | global food law (graduate level) | 16.0601 | Greek literature |
| 26.0509 | global health and infectious disease | 38.0199 | Greek philosophy |
| 60.0718 | global health nurse practitioner - fellowship | 16.0601 | Greek |
| 60.0718 | global health nurse practitioner - residency | 52.0201 | green business management |
| 52.1101 | global management | 01.0604 | greenhouse management |
| 30.2001 | global studies | 01.0604 | greenhouse operations and management |
| 16.1301 | goidelic languages | 01.0604 | greenhouse production technology |
| 50.0714 | goldsmithing | 31.0302 | greenskeeping |
| 01.0607 | golf and sports turf management | 01.0605 | greenspace maintenance |
| 31.0302 | golf club management and operations | 01.0605 | greenspace management |
| 31.0302 | golf club management | 01.0605 | greenspace |
| 31.0302 | golf course and greenspace management | 10.0201 | grip |
| 31.0302 | golf course grounds management | 49.0104 | ground support and flightline operations |
| 31.0302 | golf course maintenance | 01.0605 | groundskeeping |
| 31.0302 | golf course management | 01.0680 | growing cannabis |
| 31.0302 | golf course operations | 01.0680 | growing marijuana |
| 31.0302 | golf course technology | 13.1101 | guidance and counselling |
| 31.0302 | golf management | 13.1101 | guidance counselling |
| 31.0501 | golf professional | 13.1101 | guidance counsellor |
| 31.0501 | golf | 50.0911 | guitar |
| 16.0599 | Gothic | 16.0799 | Gujarati |
| 44.0401 | government administration | 47.0402 | gunsmith |
| 01.0480 | government cannabis inspector | 47.0402 | gunsmithing |
| 49.0202 | grader operator | 31.0501 | gymnastics coaching |
| | | 31.0501 | gymnastics |

61.1302 gynecologic oncology - fellowship
61.1301 gynecology - residency
36.0202 gyroplane pilot permit (not for credit)

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47.0201 HAC mechanic
47.0201 HACR mechanic
12.0412 hair salon management
12.0412 hair salon manager
12.0407 hairdresser
12.0413 hairdressing instructor
12.0407 hairdressing
12.0407 hairstyling
12.0407 hairstylist
61.0214 hand surgery - fellowship
36.0102 handicrafts and model-making (not for credit)
50.0201 handicrafts
15.0901 hard rock mining
50.0911 harp
50.0907 harpsichord
03.0599 harvesting of forest biomass
16.1103 Hattic
50.0407 haute couture
16.1409 Hawaiian language and literature
16.1409 Hawaiian language
16.1409 Hawaiian literature
16.1409 Hawaiian
15.0508 hazardous materials and waste treatment technician
15.0508 hazardous materials and waste treatment technologist
15.0704 hazardous materials information systems technician
15.0704 hazardous materials information systems technology
15.0508 hazardous materials management
15.0508 hazardous materials technician
15.0508 hazardous materials technology
15.0508 hazardous waste technician
15.0508 hazardous waste technology
61.1105 headache medicine - fellowship
51.0701 health administration

51.2601 health aide
31.0501 health and fitness studies
09.0905 health and health science communication
31.0501 health and physical fitness
51.2212 health and social behaviour
51.0001 health and wellness
51.2212 health behaviour
01.0480 Health Canada cannabis inspector
51.0701 health care administration
51.2601 health care aide
51.2601 health care attendant
51.0702 health care facilities administration
51.0702 health care facilities management
16.0103 health care interpreting
51.0701 health care management
51.2601 health care worker
51.0715 health claims examiner
09.0905 health communication
30.7099 health data science and biostatistics
51.3204 health humanities
51.2706 health informatics
51.0706 health information administration
51.0706 health information administrator
51.0706 health information management
51.0723 health information privacy assurance and security
51.0723 health information privacy assurance
51.0706 health information science
51.0723 health information security
51.0707 health information technician
51.0707 health information technology
51.0715 health insurance claims examiner
09.0407 health journalism
22.0101 health law (except graduate level)
22.0208 health law (graduate level)
51.0701 health management
13.1327 health occupations teacher education
13.1327 health occupations teacher
51.0705 health office administration
51.0705 health office management
51.0916 health physics technician
51.2205 health physics
61.0204 health policy - fellowship

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| 44.0503 | health policy analysis | 51.0722 | healthcare system leadership and innovation |
| 44.0503 | health policy | 51.0918 | hearing aid practitioner |
| 51.3202 | health professions education | 51.0918 | hearing aid specialist |
| 51.0001 | health promotion and wellness | 51.0918 | hearing aid technician |
| 42.2810 | health psychology | 51.0918 | hearing instrument specialist |
| 51.0706 | health record administration | 46.0414 | heat and frost insulator |
| 51.0706 | health records administration | 47.0201 | heating and air conditioning mechanic |
| 51.0707 | health records technician | 15.0501 | heating engineering technology |
| 51.0707 | health records technology | 47.0201 | heating systems technician |
| 51.0000 | health sciences - Aboriginal health | 47.0201 | heating technician |
| 51.0000 | health sciences - Indigenous health | 47.0201 | heating, air conditioning and refrigeration mechanic |
| 51.0000 | health sciences | 15.0501 | heating, refrigeration and air conditioning technician |
| 51.2211 | health services administration | 15.0501 | heating, refrigeration and air conditioning technology |
| 51.2211 | health services management | 14.9999 | heating, ventilation and air conditioning engineering (university) |
| 51.0000 | health services | 47.0201 | heating, ventilation and air conditioning mechanic |
| 51.0000 | health studies | 15.0501 | heating, ventilation and air conditioning technician |
| 60.0813 | health system medication management pharmacy - fellowship | 15.0501 | heating, ventilation and air conditioning technology |
| 60.0813 | health system medication management pharmacy - residency | 47.0201 | heating, ventilation, air conditioning and refrigeration mechanic |
| 60.0813 | health system pharmacy - fellowship | 15.0501 | heating, ventilation and air conditioning technician |
| 60.0813 | health system pharmacy - residency | 15.0501 | heating, ventilation and air conditioning technology |
| 60.0814 | health system pharmacy administration and leadership - fellowship | 47.0201 | heating, ventilation, air conditioning and refrigeration mechanic |
| 60.0814 | health system pharmacy administration and leadership - residency | 15.0501 | heating, ventilation, air conditioning and refrigeration technician |
| 13.1307 | health teacher education | 15.0501 | heating, ventilation, air conditioning and refrigeration technology |
| 13.1307 | health teacher | 49.0202 | heavy construction equipment operator |
| 51.0703 | health unit clerk | 47.0605 | heavy duty diesel mechanic |
| 51.0703 | health unit coordinator | 47.0302 | heavy duty equipment mechanic |
| 51.0704 | health unit manager | 47.0302 | heavy duty equipment technician |
| 51.0704 | health unit supervisor | 49.0205 | heavy duty truck driver |
| 51.0715 | health/medical claims examiner | 47.0613 | heavy duty/commercial transport repair mechanic |
| 51.0000 | health | 47.0302 | heavy equipment maintenance |
| 22.0208 | healthcare compliance law (graduate level) | 47.0302 | heavy equipment mechanic |
| 04.0402 | healthcare environment architecture | 47.0302 | heavy equipment mechanics |
| 04.0402 | healthcare environment design | 49.0202 | heavy equipment operation - forestry |
| 51.0723 | healthcare information privacy assurance and security | 49.0202 | heavy equipment operation - surface mining |
| 51.0723 | healthcare information privacy assurance | 49.0202 | heavy equipment operation |
| 51.0723 | healthcare information security | | |
| 51.0722 | healthcare innovation | | |
| 51.2213 | healthcare quality and patient safety | | |
| 61.0211 | healthcare simulation - fellowship | | |

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| 49.0202 | heavy equipment operator | 60.0914 | hepatobiliary surgery physician associate - residency |
| 47.0302 | heavy equipment repair | 60.0720 | hepatology nurse practitioner - fellowship |
| 47.0302 | heavy equipment service technician | 60.0720 | hepatology nurse practitioner - residency |
| 47.0302 | heavy equipment technician | 51.3702 | herbal medicine |
| 47.0302 | heavy equipment technology | 51.3702 | herbalism |
| 49.0202 | heavy machinery operator | 51.3702 | herbalist |
| 49.0205 | heavy truck driving | 51.3702 | herbology |
| 47.0613 | heavy vehicle mechanic | 01.8103 | herd medicine and theriogenology (Cert., MS, MSc, PhD) |
| 47.0613 | heavy vehicle mechanics | 30.1201 | heritage building conservation |
| 49.0202 | heavy-duty equipment operator | 30.1202 | heritage conservation |
| 39.0201 | Hebrew Bible | 47.0617 | high performance and custom engine mechanic |
| 16.1102 | Hebrew language and literature | 47.0617 | high performance and custom engine technician |
| 16.1102 | Hebrew language | 47.0617 | high performance powertrain mechanic |
| 13.1306 | Hebrew teacher | 47.0617 | high performance powertrain technician |
| 16.1102 | Hebrew | 48.0508 | high pressure welding |
| 36.0204 | helicopter pilot (private) (not for credit) | 13.0409 | high school administration |
| 36.0204 | helicopter pilot licence (private) (not for credit) | 53.0103 | high school business diploma |
| 49.0102 | helicopter pilot | 53.0202 | high school certificate of competence |
| 03.0511 | heli-logging | 53.0101 | high school diploma |
| 16.1202 | Hellenistic Greek | 13.1205 | high school education |
| 61.1808 | hematological pathology - fellowship | 53.0201 | high school equivalence certificate |
| 61.0808 | hematology - fellowship | 53.0201 | high school equivalency certificate |
| 51.1003 | hematology technician | 32.0202 | high school equivalency exam preparation (not for credit) |
| 51.1003 | hematology technologist | 53.0201 | high school equivalency |
| 51.1003 | hematology technology | 53.0201 | high school GED test |
| 61.0809 | hematology-oncology - fellowship | 53.0203 | high school IEP certificate |
| 60.0719 | hematology-oncology nurse practitioner - fellowship | 53.0203 | high school individual educational program certificate |
| 60.0719 | hematology-oncology nurse practitioner - residency | 53.0103 | high school industrial diploma |
| 60.0913 | hematology-oncology physician assistant - fellowship | 53.0103 | high school occupational diploma |
| 60.0913 | hematology-oncology physician assistant - residency | 13.0409 | high school principal |
| 60.0913 | hematology-oncology physician associate - fellowship | 13.1205 | high school teacher |
| 60.0913 | hematology-oncology physician associate - residency | 46.0303 | high voltage lineman/linewoman |
| 60.0914 | hepatobiliary surgery physician assistant - fellowship | 13.0406 | higher education administration |
| 60.0914 | hepatobiliary surgery physician assistant - residency | 13.0406 | higher education policy |
| 60.0914 | hepatobiliary surgery physician associate - fellowship | 13.0406 | higher education |
| 60.0914 | hepatobiliary surgery physician associate - residency | 40.0805 | high-temperature physics |
| 60.0914 | hepatobiliary surgery physician associate - fellowship | 14.0804 | highway engineering |
| | | 31.0601 | hiking guide |

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| 30.4001 | Hindi and economics | 38.0199 | history of philosophy |
| 16.0701 | Hindi language and literature | 54.0107 | history of Quebec and Canada |
| 16.0701 | Hindi language | 38.0299 | history of religion |
| 16.0701 | Hindi literature | 38.0299 | history of religious movements and institutions |
| 16.0701 | Hindi | 54.0104 | history of science |
| 38.0204 | Hindu religion | 54.0199 | history of the Americas |
| 38.0204 | Hindu studies | 39.9999 | history of theology |
| 38.0204 | Hinduism | 13.1328 | history teacher education |
| 05.0203 | Hispanic American studies | 13.1328 | history teacher |
| 16.0908 | Hispanic language and literature | 54.0101 | history |
| 16.0908 | Hispanic languages | 51.1007 | histotechnologist |
| 16.0908 | Hispanic linguistics | 16.1103 | Hittite |
| 16.0908 | Hispanic literature | 36.0120 | hobby beekeeping (not for credit) |
| 05.0130 | Hispanic studies | 31.0501 | hockey coach |
| 51.1008 | histologic technician | 49.0206 | hoist operator |
| 51.1007 | histologic technologist | 49.0206 | hoisting engineer |
| 51.1007 | histologic technology | 49.0206 | hoistman/hoistwoman |
| 26.0401 | histology | 51.3306 | holistic health |
| 50.0510 | historic costumes | 51.3306 | holistic medicine |
| 30.1201 | historic preservation and conservation | 51.3199 | holistic nutrition |
| 30.1201 | historic preservation | 30.2101 | holocaust and genocide studies |
| 45.0301 | historical archaeology | 30.2101 | holocaust and related studies |
| 45.0301 | historical archeology | 30.2101 | holocaust studies |
| 45.0799 | historical geography | 39.9999 | holy scripture studies |
| 54.0101 | historical research | 47.0106 | home appliance repair |
| 54.0101 | historical studies | 51.2602 | home attendant |
| 39.0601 | historical theology | 46.0415 | home building |
| 30.4501 | history and language | 51.2602 | home care aide |
| 30.4501 | history and literature | 51.2602 | home care attendant |
| 50.0703 | history and philosophy of art | 19.0605 | home decorating |
| 13.0901 | history and philosophy of education | 13.1308 | home economics education |
| 38.9999 | history and philosophy of religion | 13.1308 | home economics teacher education |
| 54.0104 | history and philosophy of science and technology | 13.1308 | home economics teacher |
| 54.0104 | history and philosophy of science | 13.1308 | home economics teaching |
| 30.4601 | history and political science | 19.0101 | home economics |
| 04.0801 | history and theory of architecture | 19.0605 | home furnishings and equipment |
| 13.1328 | history education | 51.2602 | home health aide |
| 54.0107 | history of Canada | 51.0718 | home health services administration |
| 45.0699 | history of economics | 51.0718 | home health services management |
| 13.0901 | history of education | 46.0403 | home inspection |
| 51.3205 | history of medicine | 46.0403 | home inspector |
| 54.0107 | history of New France | 36.0105 | home maintenance and improvement (not for credit) |

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| 19.0605 | home staging | 60.0723 | hospital medicine nurse practitioner - fellowship |
| 51.2602 | home support aide | 60.0723 | hospital medicine nurse practitioner - residency |
| 51.2602 | home support attendant | 60.0813 | hospital pharmacy - fellowship |
| 60.0721 | home-based primary care nurse practitioner - fellowship | 60.0813 | hospital pharmacy - residency |
| 60.0721 | home-based primary care nurse practitioner - residency | 60.0814 | hospital pharmacy administration and leadership - fellowship |
| 43.0399 | homeland security | 60.0814 | hospital pharmacy administration and leadership - residency |
| 51.3304 | homeopathic medicine | 51.2008 | hospital pharmacy |
| 51.3304 | homeopathy | 51.0703 | hospital unit clerk |
| 53.0104 | honours high school diploma | 60.0915 | hospitalist physician associate - fellowship |
| 53.0104 | honours secondary school diploma | 60.0915 | hospitalist physician assistant - fellowship |
| 50.0914 | horn | 60.0915 | hospitalist physician assistant - residency |
| 01.0307 | horse breeding | 60.0915 | hospitalist physician associate - residency |
| 01.0507 | horse dressage | 52.0901 | hospitality administration |
| 01.0504 | horse grooming | 52.0908 | hospitality and casino management |
| 01.0307 | horse husbandry | 52.1910 | hospitality and recreation marketing operations |
| 01.0507 | horse training | 52.1910 | hospitality and recreation marketing |
| 01.9999 | horse welfare | 52.0901 | hospitality and tourism administration |
| 01.0507 | horseback riding | 52.0901 | hospitality and tourism management |
| 01.0509 | horseshoeing | 52.0901 | hospitality management |
| 01.0207 | horticultural irrigation | 52.1910 | hospitality marketing |
| 01.0605 | horticultural landscaping | 52.0904 | hotel administration |
| 01.1104 | horticultural plant breeding | 52.0904 | hotel management |
| 01.1103 | horticultural science | 52.0909 | hotel, motel, and restaurant management |
| 01.0601 | horticultural technology | 46.0408 | house painting |
| 51.2316 | horticultural therapist | 19.0101 | household science |
| 51.2316 | horticultural therapy | 19.0601 | housing and human environments |
| 01.0601 | horticulture operations | 44.0499 | housing management |
| 26.1301 | horticulture science in urban ecosystems | 15.0501 | HRAC technician |
| 51.2316 | horticulture therapist | 15.0501 | HRAC technology |
| 51.2316 | horticulture therapy | 47.0616 | hull technician |
| 01.0601 | horticulture | 30.2701 | human biology |
| 01.0601 | horticulturist | 11.0105 | human centred technology design |
| 51.1512 | hospice and palliative care | 30.3101 | human computer interaction |
| 61.0205 | hospice and palliative medicine - fellowship | 19.0701 | human development and family studies |
| 60.0722 | hospice and palliative medicine nurse practitioner - fellowship | 19.0701 | human development studies |
| 60.0722 | hospice and palliative medicine nurse practitioner - residency | 19.0101 | human ecology |
| 51.1512 | hospice care | 14.3501 | human factors engineering |
| 51.0702 | hospital administration | 26.0806 | human genetics |
| 51.0702 | hospital management | 45.0701 | human geography |

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| 31.0505 | human kinetics | 47.0614 | hybrid powered automobile service technician |
| 19.0504 | human nutrition | 15.1103 | hydraulic engineering technician |
| 30.1901 | human nutritional sciences | 15.1103 | hydraulic engineering technology |
| 31.0505 | human performance | 14.0805 | hydraulic engineering |
| 26.0901 | human physiology | 47.0302 | hydraulic mechanic |
| 42.9999 | human psychology | 47.0302 | hydraulic mechanics |
| 52.1001 | human resources administration | 15.1103 | hydraulic technician |
| 52.1005 | human resources development | 15.1103 | hydraulic technology |
| 22.0220 | human resources law (graduate level) | 15.1103 | hydraulics and fluid power technician |
| 52.1001 | human resources management | 15.1103 | hydraulics and fluid power technology |
| 52.1001 | human resources | 14.0805 | hydraulics engineer |
| 45.9999 | human rights studies | 15.1103 | hydraulics technician |
| 44.0000 | human services counsellor | 15.1705 | hydroelectric energy engineering technician |
| 44.0000 | human services worker | 15.1705 | hydroelectric energy engineering technology |
| 44.0000 | human services | 47.0705 | hydroelectric energy installation and repair technician |
| 50.0499 | human-centred design | 47.0705 | hydroelectric energy installation and repair technology |
| 11.0105 | human-centred technology design | 47.0705 | hydroelectric energy system installation and repair technician |
| 24.0103 | humanistic studies | 47.0705 | hydroelectric energy system installation and repair technology |
| 24.0103 | humanities, art and literature | 47.0705 | hydroelectric energy system installation technician |
| 24.0103 | humanities | 47.0705 | hydroelectric energy system installation technology |
| 50.0511 | humour and comedy writing | 47.0705 | hydroelectric energy system installation maintenance technician |
| 16.1503 | Hungarian language and literature | 47.0705 | hydroelectric energy system maintenance technology |
| 16.1503 | Hungarian language | 47.0705 | hydroelectric energy system repair technician |
| 16.1503 | Hungarian literature | 47.0705 | hydroelectric energy system repair technology |
| 16.1503 | Hungarian | 47.0705 | hydroelectric energy system repair technology |
| 03.0207 | hunting and fishing guide | 47.0705 | hydroelectric energy system repair technician |
| 03.0601 | hunting and fishing management technology | 47.0705 | hydroelectric energy system repair technology |
| 03.9999 | hunting and trapping | 47.0705 | hydroelectric energy technician |
| 03.9999 | hunting | 15.1705 | hydroelectric energy technology |
| 16.1103 | Hurrian | 14.4802 | hydroelectric power plant engineering |
| 47.0201 | HVAC (apprenticeship) | 15.1702 | hydroelectric power plant operator |
| 15.0501 | HVAC (diploma) | 15.1705 | hydroelectricity technician |
| 47.0201 | HVAC (journeyman/journeywoman) | | |
| 47.0201 | HVAC (journeyperson) | | |
| 14.9999 | HVAC engineering (university) | | |
| 47.0201 | HVAC mechanic | | |
| 15.0501 | HVAC technician | | |
| 15.0501 | HVAC technology | | |
| 47.0201 | HVACR mechanic | | |
| 15.0501 | HVACR technician | | |
| 15.0501 | HVACR technology | | |

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| 30.4101 | hydrogeology and environmental science | 13.1501 | Indigenous classroom assistant |
| 40.0605 | hydrogeology | 13.0203 | Indigenous education for certified teachers |
| 15.1102 | hydrographic surveying | 13.0203 | Indigenous education |
| 14.0802 | hydrological engineering | 19.0707 | Indigenous family support |
| 40.0605 | hydrology | 44.0401 | Indigenous governance |
| 51.0921 | hyperbaric medical technologist | 51.0001 | Indigenous health and wellness |
| 51.0921 | hyperbaric medical technology | 51.0000 | Indigenous health |
| 61.0216 | hyperbaric medicine - fellowship | 22.0224 | Indigenous hunting and fishing rights |
| 51.0921 | hyperbaric medicine technician | 16.1001 | Indigenous language revitalization |
| 51.0921 | hyperbaric medicine technology | 13.1306 | Indigenous language teacher education |
| 51.0921 | hyperbaric technician | 13.1306 | Indigenous language teacher |
| 51.0921 | hyperbaric technologist | 16.1001 | Indigenous language |
| 51.3603 | hypnotherapist | 16.1001 | Indigenous languages and literature |
| 51.3603 | hypnotherapy | 16.1001 | Indigenous languages of the Americas |
| | | 16.1001 | Indigenous languages, literatures, and linguistics of the Americas |
| I | | 22.0224 | Indigenous law (graduate level) |
| | | 22.0224 | Indigenous law and advocacy (graduate level) |
| 05.0130 | Iberian studies | 16.1001 | Indigenous linguistics |
| 31.0399 | ice technician | 16.1001 | Indigenous literature |
| 16.0599 | Icelandic | 22.0224 | Indigenous peoples rights |
| 50.0410 | illustration | 22.0224 | Indigenous rights |
| 16.1499 | Ilokano | 05.0202 | Indigenous studies |
| 09.0902 | image management | 13.1501 | Indigenous teacher aide |
| 22.0399 | immigration consultant | 24.0101 | individualized studies |
| 22.0399 | immigration practitioner | 05.0206 | Indo-American studies |
| 26.0507 | immunology | 05.0206 | Indo-Canadian studies |
| 61.1809 | immunopathology - fellowship | 05.0112 | Indology |
| 51.0514 | implant dentistry (Cert., MS, MSc, PhD) | 05.0206 | Indonesian American studies |
| 60.0110 | implantology - fellowship | 05.0206 | Indonesian Canadian studies |
| 51.0514 | implantology (Cert., MS, MSc, PhD) | 16.1402 | Indonesian languages and literature |
| 47.0616 | inboard and outboard motor mechanics | 16.1402 | Indonesian languages |
| 47.0616 | inboard and outboard motor technology | 16.1402 | Indonesian literature |
| 47.0616 | inboard mechanic | 16.1401 | Indo-Pacific languages |
| 47.0616 | inboard/outboard mechanic | 51.2009 | industrial and physical pharmacy and cosmetic sciences |
| 43.0302 | incident command systems | | |
| 13.1001 | inclusive education | 13.1309 | industrial arts education |
| 30.0001 | inclusive post-secondary education (IPSE) | 13.1309 | industrial arts teacher education |
| 30.0001 | inclusive postsecondary education | 13.1309 | industrial arts teacher |
| 24.0101 | independent studies | 51.0899 | industrial audiometric technician |
| 13.0203 | Indian and northern education | 41.0303 | industrial chemistry technology |
| 13.0203 | Indian teacher education program (ITEP) | 15.0404 | industrial control technician |
| 05.0112 | Indian/South Asian studies | | |
| 05.0202 | Indigenous and Northern studies | | |

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| 50.0404 | industrial design | 41.0204 | industrial radiological technologist |
| 15.1301 | industrial drafting | 41.0204 | industrial radiological technology |
| 51.2006 | industrial drug development | 52.1002 | industrial relations |
| 45.0602 | industrial economics | 46.0410 | industrial roofing |
| 13.1320 | industrial education | 15.0703 | industrial safety technician |
| 46.0302 | industrial electrician | 15.0703 | industrial safety technology |
| 47.0105 | industrial electronics technician | 47.9999 | industrial sewing machine mechanics |
| 47.0105 | industrial electronics technology | 48.0506 | industrial sheet metal working |
| 47.0105 | industrial electronics | 52.0205 | industrial supervision |
| 15.0612 | industrial engineering technology | 14.3501 | industrial systems engineering |
| 14.3501 | industrial engineering | 15.0612 | industrial technician |
| 47.0303 | industrial equipment technology | 15.0612 | industrial technology |
| 15.0703 | industrial hygiene technology | 48.0303 | industrial upholstery |
| 51.2206 | industrial hygiene | 47.0409 | industrial warehousing |
| 15.0404 | industrial instrument mechanic | 48.0508 | industrial welder |
| 15.0404 | industrial instrumentation technology | 48.0508 | industrial welding |
| 15.0404 | industrial instrumentation | 48.0701 | industrial woodworking |
| 48.0501 | industrial machinist | 19.0709 | infant and toddler care |
| 47.0303 | industrial maintenance mechanic | 51.1510 | infant and toddler mental health services |
| 47.0303 | industrial maintenance technician | 51.1510 | infant mental health services |
| 47.0303 | industrial maintenance technology | 61.0810 | infectious disease - fellowship |
| 15.1501 | industrial management | 26.0509 | infectious disease and global health |
| 52.1999 | industrial marketing | 26.0599 | infectious disease and immunology |
| 47.0303 | industrial mechanic (millwright) | 26.0599 | infectious disease and medical microbiology |
| 47.0303 | industrial mechanic millwright | 26.0599 | infectious disease and microbiology |
| 47.0303 | industrial mechanic | 60.0724 | infectious diseases nurse practitioner - fellowship |
| 47.0303 | industrial mechanics and maintenance | 60.0724 | infectious diseases nurse practitioner - residency |
| 47.0303 | industrial mechanics | 60.0815 | infectious diseases pharmacy - fellowship |
| 26.0599 | industrial microbiology | 60.0815 | infectious diseases pharmacy - residency |
| 47.0303 | industrial millwright | 61.1304 | infertility - fellowship |
| 46.0408 | industrial painting | 30.7103 | infographics and data visualization design |
| 51.2009 | industrial pharmacy and cosmetic sciences | 11.0104 | informatics |
| 51.2009 | industrial pharmacy | 22.0101 | information and technology law (except graduate level) |
| 46.0502 | industrial pipefitting | 22.0212 | information and technology law (graduate level) |
| 47.0303 | industrial plant technician | 11.1003 | information assurance |
| 19.0999 | industrial power sewing | 52.1206 | information management |
| 19.0902 | industrial production of clothing | 52.0407 | information processing, business |
| 42.2804 | industrial psychology | 52.1206 | information resources management |
| 41.0204 | industrial radiographer | 11.0401 | information science |
| 41.0204 | industrial radiography | | |
| 41.0204 | industrial radiologic technician | | |
| 41.0204 | industrial radiologic technology | | |
| 41.0204 | industrial radiological technician | | |

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| 11.0401 | information studies | 52.1701 | insurance agent |
| 52.1201 | information system administration | 52.0804 | insurance and financial services |
| 52.1201 | information system management | 52.1701 | insurance broker |
| 11.1003 | information systems security | 52.1701 | insurance claims adjuster |
| 11.1006 | information technology contact centre - customer care agent | 22.0221 | insurance law (graduate level) |
| 11.1006 | information technology contact centre - technical support agent | 52.1701 | insurance management |
| 11.1005 | information technology project management | 52.1701 | insurance underwriting |
| 11.1006 | information technology support specialist | 52.1701 | insurance |
| 11.0103 | information technology | 15.0306 | integrated circuit design and layout |
| 43.0399 | infrastructure protection and international security | 15.0306 | integrated circuit design |
| 51.0908 | inhalation therapy | 43.0302 | integrated emergency management |
| 52.0904 | inn management | 61.2602 | integrated interventional radiology - residency |
| 22.0212 | innovation law (graduate level) | 03.0206 | integrated land management |
| 16.1001 | Innu language | 03.0205 | integrated management of coastal zones |
| 40.0503 | inorganic chemistry | 61.2102 | integrated plastic surgery - residency |
| 52.0299 | institutional administration | 51.3306 | integrative health |
| 12.0500 | institutional cook | 61.0206 | integrative medicine - fellowship |
| 12.0500 | institutional cooking | 22.0212 | intellectual property law (graduate level) |
| 12.0508 | institutional food service | 60.0703 | intensive care nurse practitioner - fellowship |
| 12.0508 | institutional food worker | 60.0703 | intensive care nurse practitioner - residency |
| 52.0299 | institutional management | 60.0703 | intensive care nurse practitioner |
| 12.0506 | institutional meat cutting | 51.3814 | intensive care nurse |
| 13.0608 | institutional research | 51.3814 | intensive care nursing |
| 13.0501 | instructional media | 11.0801 | interactive multimedia and design |
| 13.0501 | instructional technology | 30.2301 | intercultural and diversity studies |
| 50.0904 | instrumental composition | 09.0907 | intercultural communication |
| 50.0912 | instrumental pedagogy | 13.0202 | intercultural education |
| 50.0903 | instrumental performance | 30.2301 | intercultural studies |
| 15.0404 | instrumentation and control engineering technician | 30.9999 | interdisciplinary studies |
| 15.0404 | instrumentation and control technician | 04.0501 | interior architectural design |
| 15.0404 | instrumentation engineering technology | 04.0501 | interior architecture |
| 14.9999 | instrumentation engineering | 19.0605 | interior decorating |
| 15.0404 | instrumentation mechanic | 50.0408 | interior design |
| 15.0404 | instrumentation technician | 50.0706 | intermedia |
| 15.0404 | instrumentation technology | 13.1206 | intermediate and secondary education |
| 46.0414 | insulation | 13.1203 | intermediate education |
| 46.0414 | insulator (heat and frost) | 13.1203 | intermediate school education |
| 46.0414 | insulator | 13.1203 | intermediate school teacher |
| 52.1701 | insurance adjuster | 52.0303 | internal audit |
| | | 61.0801 | internal medicine - residency |

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| 61.0108 | internal medicine and anesthesiology - combined specialty | 09.0907 | international and intercultural communication |
| 61.0109 | internal medicine and dermatology - combined specialty | 13.1212 | International Baccalaureate (IB) teaching |
| 61.0110 | internal medicine and emergency medicine - combined specialty | 53.0104 | international baccalaureate (IB) |
| 61.0112 | internal medicine and family medicine - combined specialty | 13.1212 | International Baccalaureate teacher |
| 61.0113 | internal medicine and medical genetics and genomics - combined specialty | 13.1212 | International Baccalaureate teaching and learning |
| 61.0114 | internal medicine and neurology - combined specialty | 13.1212 | International Baccalaureate teaching |
| 61.0115 | internal medicine and pediatrics - combined specialty | 22.0101 | international business law (except graduate level) |
| 61.0116 | internal medicine and preventive medicine - combined specialty | 22.0210 | international business law (graduate level) |
| 61.0117 | internal medicine and psychiatry - combined specialty | 52.1101 | international business management |
| 60.0816 | internal medicine pharmacy - fellowship | 52.1101 | international business |
| 60.0816 | internal medicine pharmacy - residency | 52.1101 | international commerce |
| 61.0111 | internal medicine, emergency medicine, and critical care medicine - combined specialty | 09.0907 | international communication |
| 61.0108 | internal medicine/anesthesiology - combined specialty | 13.0701 | international comparative education studies |
| 61.0109 | internal medicine/dermatology - combined specialty | 45.0604 | international development studies |
| 61.0110 | internal medicine/emergency medicine - combined specialty | 45.0604 | international development |
| 61.0111 | internal medicine/emergency medicine/critical care medicine - combined specialty | 45.0605 | international economics |
| 61.0112 | internal medicine/family medicine - combined specialty | 19.0905 | international fashion development and management |
| 61.0113 | internal medicine/medical genetics and genomics - combined specialty | 52.0806 | international finance |
| 61.0114 | internal medicine/neurology - combined specialty | 22.0214 | international food law (graduate level) |
| 61.0115 | internal medicine/pediatrics - combined specialty | 51.2210 | international health |
| 61.0116 | internal medicine/preventive medicine - combined specialty | 22.0209 | international human rights law (graduate level) |
| 61.0117 | internal medicine/psychiatry - combined specialty | 52.1101 | international import-export business |
| 45.0901 | international affairs | 09.0401 | international journalism |
| 01.0701 | international agriculture | 22.0101 | international law (except graduate level) |
| 13.0701 | international and comparative education | 22.0209 | international law (graduate level) |
| | | 22.0209 | international legal studies (graduate level) |
| | | 52.1101 | international management |
| | | 52.1403 | international marketing |
| | | 45.1004 | international political economy |
| | | 45.0901 | international politics |
| | | 51.2210 | international public health/international health |
| | | 51.2210 | international public health |
| | | 44.0504 | international public policy analysis |
| | | 44.0504 | international public policy |
| | | 45.0901 | international relations and affairs - economics |
| | | 45.0901 | international relations and affairs - history |

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| 45.0901 | international relations and affairs - political science | 37.0106 | investing, wealth management, and retirement planning (not for credit) |
| 45.0901 | international relations | 52.0804 | investment advisor |
| 13.0412 | international school administration | 52.0807 | investment management |
| 13.0412 | international school leadership | 52.0807 | investments and securities |
| 30.2001 | international studies | 40.0403 | ionospheric environment |
| 22.0101 | international tax law (except graduate level) | 16.0801 | Iranian languages and literature |
| 22.0210 | international tax law (graduate level) | 16.0801 | Iranian languages |
| 22.0210 | international trade law (graduate level) | 16.0801 | Iranian linguistics |
| 52.1101 | international trade | 16.0801 | Iranian literature |
| 43.0403 | internet crime investigation | 23.1404 | Irish English literature |
| 43.0403 | internet forensic investigation | 16.1301 | Irish Gaelic |
| 11.1003 | internet security | 54.0103 | Irish history |
| 35.0101 | interpersonal and social skills, general (not for credit) | 05.0133 | Irish studies |
| 35.0102 | interpersonal relationships skills (not for credit) | 16.1301 | Irish |
| 16.0103 | interpreter translator | 48.0509 | ironwork |
| 61.0811 | interventional cardiology - fellowship | 48.0509 | ironworker (generalist) |
| 61.2612 | interventional radiology - fellowship | 48.0509 | ironworker (reinforcing) |
| 51.3824 | intimate partner violence nurse examiner | 48.0509 | ironworker (structural/ornamental) |
| 51.0922 | intraoperative neuromonitoring technician | 48.0509 | ironworker generalist |
| 51.0922 | intraoperative neuromonitoring technologist | 48.0509 | ironworker reinforcing rebar |
| 51.0922 | intraoperative neuromonitoring technology | 48.0509 | ironworker structural and ornamental |
| 43.0100 | introduction to criminal justice and corrections | 48.0509 | ironworker structural |
| 43.0401 | introduction to security science and technology | 48.0509 | ironworker |
| 21.0101 | introduction to trades | 48.0509 | ironworking |
| 54.0107 | Inuit history | 16.1001 | Iroquoian languages |
| 16.1001 | Inuit language | 01.0207 | irrigation and drainage |
| 05.0202 | Inuit studies | 01.0207 | irrigation design |
| 16.1001 | Inuktitut | 14.0805 | irrigation engineering |
| 52.0409 | inventory control | 01.0207 | irrigation management technician |
| 52.0409 | inventory management | 01.0207 | irrigation management technology |
| 43.0114 | investigation and interviewing | 01.0207 | irrigation management |
| 60.0817 | investigational drugs and research pharmacy - fellowship | 01.0207 | irrigation technician |
| 60.0817 | investigational drugs and research pharmacy - residency | 01.0207 | irrigation technology |
| 43.0114 | investigative and enforcement skills | 01.0207 | irrigation |
| 43.0405 | investigative and forensic accounting | 38.0205 | Islamic religion |
| 37.0106 | investing (not for credit) | 38.0205 | Islamic studies |
| | | 05.0122 | island studies |
| | | 11.1005 | IT project management |
| | | 11.1003 | IT security |
| | | 11.1006 | IT support specialist |
| | | 11.0103 | IT |
| | | 16.0902 | Italian language and literature |

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| 16.0902 | Italian language | 43.0107 | justice and law enforcement |
| 16.0902 | Italian literature | 43.0110 | juvenile corrections |
| 05.0126 | Italian studies | | |
| 16.0902 | Italian | K | |
| J | | 13.0401 | K-12 educational administration |
| 05.0206 | Japanese American studies | 13.0401 | K-12 educational leadership |
| 05.0206 | Japanese Canadian studies | 16.1499 | Kachin |
| 16.0302 | Japanese language and literature | 16.0799 | Kannanda |
| 16.0302 | Japanese language | 16.1502 | Karelian |
| 16.0302 | Japanese literature | 16.1499 | Karen |
| 05.0127 | Japanese studies | 16.0499 | Kashubian |
| 16.0302 | Japanese | 31.0601 | kayaking instructor |
| 50.0910 | jazz music | 16.1599 | Kazakh |
| 50.0910 | jazz performance | 50.0907 | keyboard instruments |
| 50.0910 | jazz studies | 11.0601 | keypunch operator |
| 50.0910 | jazz | 11.0601 | keypunch |
| 36.0206 | Jet Ski operator (not for credit) | 05.0206 | Khmer American studies |
| 47.0408 | jeweller | 05.0206 | Khmer Canadian studies |
| 50.0713 | jewellery arts | 16.1405 | Khmer language and literature |
| 50.0713 | jewellery design | 16.1405 | Khmer language |
| 47.0408 | jewellery making | 16.1405 | Khmer literature |
| 47.0408 | jewellery repair | 16.1405 | Khmer |
| 38.0207 | Jewish law | 31.0505 | kinanthropology |
| 38.0206 | Jewish studies | 13.1206 | kindergarten and elementary education |
| 39.0601 | Jewish theology | 13.1209 | kindergarten education |
| 32.0105 | job-changing skills (not for credit) | 13.1209 | kindergarten teacher |
| 32.0105 | job-seeking skills (not for credit) | 13.1209 | kindergarten teaching |
| 48.0701 | joinery | 31.0505 | kinesiology and exercise science |
| 28.0801 | joint command and staff programme | 31.0505 | kinesiology and health science |
| 28.0801 | joint staff operations programme | 31.0505 | kinesiology and sport studies |
| 09.9999 | journalism and communication | 31.0505 | kinesiology |
| 09.0401 | journalism | 51.2311 | kinesiotherapist |
| 38.0206 | Judaic studies | 51.2311 | kinesiotherapy |
| 13.1203 | junior and intermediate education | 16.1599 | Kirghiz |
| 13.1203 | junior high education | 12.0505 | kitchen help |
| 13.1203 | junior high school education | 52.1207 | knowledge management |
| 13.1203 | junior high school teacher | 50.0912 | Kodaly concept of music education |
| 13.1203 | junior high teacher | 50.0912 | Kodaly methodology |
| 22.0101 | Juris Doctor (JD) | 16.1202 | Koine Greek |
| 22.0000 | Juris Master (JM) | 05.0206 | Korean American studies |
| 43.0103 | justice administration | 05.0206 | Korean Canadian studies |
| | | 54.0106 | Korean history |

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| 16.0303 | Korean language and literature | 04.0601 | landscape architectural technology |
| 16.0303 | Korean language | 04.0601 | landscape architecture |
| 16.0303 | Korean literature | 01.0605 | landscape construction |
| 05.0128 | Korean studies | 01.0605 | landscape design |
| 16.0303 | Korean | 01.0605 | landscape gardener |
| | | 01.0605 | landscape horticulture |
| L | | 01.0207 | landscape irrigation |
| | | 01.0605 | landscape management |
| 51.0924 | laboratory and X-ray technology | 01.0605 | landscape technology |
| 01.0599 | laboratory animal attendant | 04.0601 | landscaping architecture |
| 01.0599 | laboratory animal care worker | 01.0605 | landscaping |
| 60.0306 | laboratory animal medicine - residency | 30.4501 | language and art history |
| 01.8102 | laboratory animal medicine | 30.4001 | language and international economics |
| 01.8301 | laboratory animal technician | 16.1601 | language for the deaf |
| 01.8301 | laboratory animal technologist | 16.0103 | language interpretation and translation |
| 61.0903 | laboratory genetics and genomics - residency | 16.0101 | language studies |
| 61.1810 | laboratory medicine - fellowship | 16.0101 | languages and literature |
| 22.0220 | labour and employment law (graduate level) | 16.0103 | languages and translation |
| 52.1004 | labour and workplace studies | 16.1401 | languages of Australasia |
| 22.0220 | labour law (graduate level) | 16.1401 | languages of Oceania |
| 52.1002 | labour relations administration | 16.0101 | languages |
| 52.1002 | labour relations | 16.1601 | langue des signes québécoise |
| 52.1004 | labour studies | 16.0999 | langue d'oc |
| 52.1002 | labour-management relations | 16.1406 | Lao language and literature |
| 51.0815 | lactation consultant | 16.1406 | Lao language |
| 51.0815 | lactation counsellor | 16.1406 | Lao literature |
| 51.0815 | lactation education | 16.1406 | Lao |
| 51.0815 | lactation management | 16.1406 | Laotian language and literature |
| 11.1002 | LAN management | 16.1406 | Laotian language |
| 11.1002 | LAN manager | 16.1406 | Laotian literature |
| 52.9999 | land agent | 01.8103 | large animal surgery and medicine |
| 22.0222 | land development law (graduate level) | 01.8103 | large animal/food animal and equine surgery and medicine (Cert., MS, MSc, PhD) |
| 29.0501 | land force technical staff programme | 14.1003 | laser and optical engineering |
| 03.0206 | land management | 15.0304 | laser and optical technician |
| 15.1102 | land survey technician | 15.0304 | laser and optical technology |
| 15.1102 | land surveying | 14.1003 | laser engineering |
| 15.1102 | land surveyor | 14.1201 | laser physics |
| 03.0206 | land use planning and development | 15.0304 | laser technician |
| 03.0206 | land use planning and management | 15.0304 | laser technology |
| 03.0206 | land use planning | 16.1203 | Late Roman Latin |
| 01.0605 | landscape and gardening | 48.9999 | lathe operator |

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| 46.0404 | lather (interior systems mechanic) | 13.0607 | learning sciences |
| 05.0134 | Latin American and Caribbean studies | 19.0999 | leather apparel tailoring and accessory production |
| 16.0908 | Latin American languages and literature | 48.0304 | leather goods repair |
| 16.0908 | Latin American languages | 48.0304 | leather repair |
| 16.0908 | Latin American linguistics | 48.0304 | leathercraft |
| 16.0908 | Latin American literature | 22.0301 | legal administration |
| 05.0107 | Latin American studies | 22.0301 | legal administrative assistant |
| 13.1333 | Latin education | 22.0301 | legal administrative secretary |
| 16.1203 | Latin language and literature | 22.0302 | legal assistant |
| 16.1203 | Latin language | 22.0304 | legal interpretation and translation |
| 16.1203 | Latin literature | 22.0301 | legal office administration |
| 16.1203 | Latin studies | 22.0301 | legal office procedures |
| 13.1333 | Latin teacher education | 22.9999 | legal philosophy |
| 13.1333 | Latin teacher | 22.0301 | legal secretarial |
| 16.1203 | Latin | 22.0301 | legal secretary |
| 38.0209 | Latter-day Saints (LDS) studies | 22.0301 | legal stenography |
| 38.0209 | Latter-day Saints studies | 22.0000 | legal studies, Bachelor of Arts |
| 16.0401 | Latvian | 22.0000 | legal studies, certificate |
| 22.0101 | law (except graduate level) | 22.0000 | legal studies, college diploma |
| 22.0101 | law (LLB) | 22.0000 | legal studies, Master of Arts |
| 43.0199 | law and security administration | 22.0000 | legal studies |
| 43.0199 | law and security | 22.0399 | legal support services |
| 22.0302 | law clerk | 15.1102 | legal surveying |
| 43.0103 | law enforcement administration | 22.0302 | legal technician |
| 43.0199 | law enforcement and security | 22.0301 | legal word processing |
| 43.0408 | law enforcement intelligence analysis | 22.0299 | legislative drafting (graduate level) |
| 43.0408 | law enforcement intelligence and surveillance operations | 22.0201 | Legum Doctor (LLD) |
| 43.0114 | law enforcement investigation and interviewing | 22.0201 | Legum Magister (LLM) |
| 43.0115 | law enforcement record keeping and evidence management | 31.0504 | leisure and recreation services management |
| 43.0107 | law enforcement | 36.0101 | leisure and recreational activities, general (not for credit) |
| 22.0101 | law school (except graduate level) | 31.0504 | leisure and sport management |
| 22.0101 | lawyer | 31.0301 | leisure facilities management |
| 39.0705 | lay leadership | 31.0101 | leisure sciences |
| 39.0705 | lay ministry | 31.0504 | leisure service administration |
| 39.0705 | lay pastor | 31.0101 | leisure studies |
| 52.0213 | leadership studies | 16.1301 | Lepontic |
| 52.0299 | lean management | 05.0208 | lesbian studies |
| 52.0299 | lean manufacturing | 23.0101 | letters, English |
| 13.0607 | learning sciences and policy | 55.0101 | letters, French |
| 13.0607 | learning sciences research | 61.2404 | liaison psychiatry - fellowship |

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| 24.0101 | liberal arts and sciences | 16.1602 | linguistics of sign language |
| 24.0101 | liberal arts | 16.1602 | linguistics of signed languages |
| 24.0101 | liberal science | 16.0102 | linguistics |
| 24.0101 | liberal studies | 32.0108 | literacy (not for credit) |
| 25.0101 | librarianship | 32.0101 | literacy and basic skills (not for credit) |
| 25.0301 | library aide | 32.0108 | literacy and communication skills (not for credit) |
| 25.0101 | library and information science | 32.0101 | literacy and essential skills (not for credit) |
| 25.0301 | library and information technician | 32.0101 | literacy and numeracy (not for credit) |
| 25.0301 | library and information technology | 55.1404 | literature of France and the French community, French |
| 25.0301 | library assistant | 55.1404 | literature of France |
| 25.0301 | library clerk | 55.1404 | literature studies of the francophonie (in French) |
| 25.0101 | library management | 50.0710 | lithography |
| 25.0101 | library science | 16.0401 | Lithuanian |
| 25.0101 | library studies | 01.0302 | livestock husbandry |
| 25.0301 | library technician | 01.0906 | livestock management |
| 25.0301 | library techniques | 01.0302 | livestock production |
| 25.0301 | library technology | 49.0202 | loader operator |
| 01.0680 | licence for cultivation of cannabis | 11.1002 | local area network management |
| 01.0480 | licence for processing cannabis | 11.1002 | local area network manager |
| 52.1880 | licence for sale of cannabis for medical purposes | 47.0403 | locksmith |
| 01.0680 | licenced producer (LP) - cannabis | 47.0403 | locksmithing and safe repair |
| 46.0302 | licensed electrician | 47.0403 | locksmithing |
| 51.3901 | licensed nursing assistant | 47.0605 | locomotive diesel mechanics |
| 51.3901 | licensed practical nurse | 49.0208 | locomotive engineer |
| 01.0680 | licensed producer of cannabis | 03.0509 | log scaler |
| 01.0680 | licensed producer of marijuana | 03.0509 | log scaling |
| 01.0680 | licensed producer of medical marijuana | 03.0511 | logging equipment operation |
| 51.3901 | licensed vocational nurse | 03.0511 | logging machinery operation |
| 35.0105 | life coach (not for credit) | 03.0511 | logging |
| 35.0105 | life coaching (not for credit) | 38.0102 | logic |
| 52.1701 | life insurance | 52.0203 | logistics administration |
| 26.0101 | life sciences | 52.0203 | logistics and materiel management |
| 19.0701 | lifespan development | 52.0203 | logistics and supply management |
| 49.0209 | lift truck driver | 22.0223 | logistics and transportation law (graduate level) |
| 49.0209 | lift truck operation | 14.2701 | logistics engineering |
| 49.0209 | lift truck operator | 52.0203 | logistics management |
| 49.0399 | lighthouse keeper | 52.0203 | logistics planning |
| 26.1304 | limnology | 16.1499 | Lolo-Moso |
| 46.0303 | lineman/linewoman | 51.0718 | long term care administration |
| 46.0303 | lineworker | 51.0718 | long term care management |
| 30.4701 | linguistics and anthropology | | |
| 30.4801 | linguistics and computer science | | |

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| 49.0399 | longshoreman/longshorewoman | 47.0000 | maintenance mechanic |
| 16.0599 | Lowland Scots | 16.1499 | Makasarese |
| 40.0808 | low-temperature physics | 12.0406 | makeup artist |
| 51.3901 | LPN | 12.0406 | makeup artistry |
| 16.1601 | LSQ | 12.0406 | makeup |
| 03.0509 | lumber grading | 16.1499 | Malagasy |
| 03.0509 | lumber inspection | 16.1402 | Malay languages and literature |
| 03.0511 | lumber jack | 16.1402 | Malay languages |
| 16.0499 | Lusatian | 16.1402 | Malay literature |
| 16.1103 | Luwian | 16.0799 | Malayalam |
| 16.0599 | Luxembourgetsch | 16.1199 | Maltese |
| 51.3901 | LVN | 51.0919 | mammographic radiographer |
| 16.1103 | Lycian | 51.0919 | mammography technician |
| 16.1103 | Lydian | 51.0919 | mammography technology |
| | | 51.0919 | mammography |
| M | | 60.0818 | managed care pharmacy - fellowship |
| | | 60.0818 | managed care pharmacy - residency |
| 16.0499 | Macedonian | 51.2008 | managed care pharmacy |
| 10.0399 | machine bookbinding | 52.0305 | management accounting |
| 11.0102 | machine learning | 52.0601 | management economics |
| 47.0000 | machine mechanic | 52.1201 | management information systems |
| 47.0000 | machine repair | 52.0206 | management of cooperatives |
| 48.0503 | machine shop assistant | 51.0702 | management of health care facilities |
| 48.0503 | machine shop technology | 52.1301 | management science |
| 48.0503 | machine shop | 52.0201 | management studies |
| 48.0501 | machine tool fitter | 52.0201 | management |
| 48.0501 | machine tool operator | 16.0399 | Manchu |
| 48.0501 | machine tool technology | 30.4001 | Mandarin and economics |
| 48.0501 | machining technology | 16.0301 | Mandarin |
| 48.0501 | machining | 16.1103 | Mandean |
| 48.0501 | machinist | 12.0413 | manicure instructor |
| 48.0507 | machinist-mould maker | 12.0410 | manicure |
| 48.0501 | machinist-technician | 12.0410 | manicurist |
| 16.1499 | Madurese | 46.9999 | manlift technician |
| 09.1001 | magazine publishing | 15.1302 | manufacturing design CAD technology |
| 51.0920 | magnetic resonance imaging technician | 15.0613 | manufacturing engineering technician |
| 51.0920 | magnetic resonance imaging technology | 15.0613 | manufacturing engineering technology |
| 51.0920 | magnetic resonance radiographer | 14.3601 | manufacturing engineering |
| 40.0403 | magnetospheric physics | 52.0205 | manufacturing management |
| 16.1503 | Magyar language and literature | 15.0613 | manufacturing technician |
| 16.1503 | Magyar language | 15.0613 | manufacturing technologist |
| 16.1503 | Magyar literature | 15.0613 | manufacturing technology |
| 52.0205 | maintenance management | 16.1301 | Manx |

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| 16.1401 | Maori | 52.1880 | marijuana salesperson |
| 45.0702 | map design | 01.0680 | marijuana trimmer |
| 45.0702 | map making | 44.0580 | marijuana-related health policy analysis |
| 01.0399 | maple production | 51.2280 | marijuana-related public health |
| 16.0799 | Marathi | 31.0301 | marina management |
| 04.0201 | MArch | 22.0223 | marine affairs law (graduate level) |
| 51.1580 | marijuana abuse counselling | 26.1302 | marine biology |
| 51.1580 | marijuana abuse intervention | 48.0704 | marine carpenter |
| 51.1580 | marijuana abuse prevention | 47.0605 | marine diesel mechanic |
| 51.1580 | marijuana addiction counselling | 15.0806 | marine electrical engineering technology |
| 51.1580 | marijuana addiction prevention and treatment | 47.0616 | marine engine technician |
| 52.1980 | marijuana branding | 15.0806 | marine engineering technician |
| 01.0680 | marijuana cultivation | 15.0806 | marine engineering technologist |
| 51.1580 | marijuana dependency counselling | 15.0806 | marine engineering technology |
| 52.1880 | marijuana dispensary manager | 14.2201 | marine engineering |
| 52.1880 | marijuana dispensary salesclerk | 15.0507 | marine environment technology |
| 01.0480 | marijuana extraction technician | 47.0616 | marine fitter |
| 01.0680 | marijuana harvesting | 40.0699 | marine geology |
| 44.0580 | marijuana health policy analysis | 45.0702 | marine geomatics |
| 44.0580 | marijuana health policy | 47.0616 | marine maintenance |
| 51.2280 | marijuana in community health | 15.0806 | marine mechanical engineering technology |
| 51.2280 | marijuana in public health education | 49.0309 | marine navigation |
| 51.2280 | marijuana in public health | 03.0205 | marine resources management |
| 01.0480 | marijuana inspection | 30.3201 | marine sciences |
| 52.1980 | marijuana marketing and marketing operations | 47.0616 | marine service technician |
| 52.1980 | marijuana marketing operations | 15.0806 | marine systems engineering technology |
| 52.1980 | marijuana marketing | 22.0223 | maritime law (graduate level) |
| 01.0480 | marijuana packaging | 43.0122 | maritime law enforcement |
| 44.0580 | marijuana policy analysis | 30.2901 | maritime studies |
| 44.0580 | marijuana policy | 52.1401 | marketing administration |
| 01.0480 | marijuana processing | 13.1310 | marketing and distribution teacher education |
| 52.1980 | marijuana product branding | 09.0903 | marketing communications |
| 01.1180 | marijuana product development and plant breeding | 13.1310 | marketing education |
| 01.0680 | marijuana production operations and management | 52.1401 | marketing management |
| 01.0680 | marijuana production | 52.1402 | marketing research |
| 44.0580 | marijuana public policy analysis | 52.1401 | marketing studies |
| 44.0580 | marijuana public policy | 13.1310 | marketing teacher |
| 01.1180 | marijuana research and development | 52.1401 | marketing |
| 52.1880 | marijuana sales clerk | 51.1505 | marriage and family counselling |
| 52.1880 | marijuana salesclerk | 51.1505 | marriage and family therapy |
| | | 51.1505 | marriage counselling |
| | | 31.0501 | martial arts |

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| 46.0101 | mason | 60.0725 | maternity nurse practitioner |
| 46.0101 | masonry restoration | 51.3806 | maternity nurse |
| 46.0101 | masonry | 51.3806 | maternity nursing |
| 09.9999 | mass communication and journalism | 30.4901 | math and business economics |
| 09.0102 | mass communication | 30.5001 | math and oceanography |
| 09.0102 | mass media | 30.4901 | math economics |
| 51.3501 | massage therapist | 13.1311 | math teacher |
| 51.3501 | massage therapy | 27.0306 | mathematical biology |
| 12.0414 | master aesthetician | 30.4901 | mathematical economics |
| 01.0310 | master beekeeper | 27.0305 | mathematical finance |
| 01.1003 | master brewer | 30.4801 | mathematical linguistics |
| 12.0503 | master chef | 40.0810 | mathematical physics |
| 47.0408 | master clockmaker | 27.0301 | mathematical sciences |
| 46.0302 | master electrician | 27.0502 | mathematical statistics |
| 12.0414 | master esthetician | 30.5001 | mathematics and atmospheric science |
| 36.0123 | master gardener (not for credit) | 30.0801 | mathematics and computer science |
| 36.0123 | master gardening (not for credit) | 30.4901 | mathematics and economics |
| 49.0309 | master mariner | 30.5001 | mathematics and ocean sciences |
| 04.0803 | Master of architectural studies (MAS) | 30.5001 | mathematics and oceanic science |
| 22.0201 | Master of Law | 27.0503 | mathematics and statistics |
| 22.0201 | Master of Laws (LLM) | 13.1311 | mathematics education |
| 22.0201 | Master of Laws | 27.0305 | mathematics for commerce |
| 22.0000 | Master of Legal Studies | 27.0301 | mathematics science |
| 51.2201 | master of public health (MPH) | 13.1311 | mathematics teacher education |
| 46.0503 | master plumber | 13.1311 | mathematics teacher |
| 51.0504 | Master's degree in dental public health (MPH) | 27.0101 | mathematics |
| 04.0803 | Master's of architectural studies | 60.0101 | maxillofacial surgery - residency |
| 40.1002 | materials chemistry | 51.0507 | maxillofacial surgery (Cert., MS, MSc, PhD) |
| 15.0699 | materials engineering technology | 16.1001 | Mayan languages |
| 14.1801 | materials engineering | 11.0203 | MCSA |
| 40.0808 | materials physics | 11.0203 | MCSE |
| 14.1801 | materials processing and manufacturing | 11.0203 | MCTS |
| 15.0699 | materials processing technician | 51.1201 | MD |
| 15.0699 | materials processing technology | 13.0604 | measurement and evaluation in education |
| 14.1801 | materials science and engineering | 13.0604 | measurement, evaluation and research methodology in education |
| 14.1801 | materials science engineering | 12.0506 | meat cutter |
| 40.1001 | materials science | 12.0506 | meat cutting |
| 52.0203 | materiel management | 01.0906 | meat science |
| 51.2209 | maternal and child health | 47.0000 | mechanic |
| 61.1303 | maternal and fetal medicine - fellowship | 15.1306 | mechanical CAD |
| 51.3806 | maternal nurse | 15.0805 | mechanical design (college) |
| 51.3806 | maternal nursing | 15.1306 | mechanical design drafting |

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| 15.1306 | mechanical drafting | 51.0801 | medical clinical assistant |
| 15.1306 | mechanical engineering computer-assisted design | 51.1401 | medical clinical science (MS, MSc, PhD) |
| 15.1306 | mechanical engineering drafting technician | 51.1012 | medical device reprocessing |
| 15.0805 | mechanical engineering technician | 51.0708 | medical dictatypist |
| 15.0805 | mechanical engineering technology | 51.1201 | medical doctor |
| 14.1901 | mechanical engineering | 61.0207 | medical education - fellowship |
| 15.0613 | mechanical manufacturing technology | 14.0501 | medical engineering |
| 15.0613 | mechanical manufacturing | 12.0414 | medical esthetician |
| 47.0303 | mechanical millwright | 51.3201 | medical ethics |
| 15.0805 | mechanical technician | 51.0716 | medical executive assistant |
| 15.0805 | mechanical technology | 51.1511 | medical family therapist |
| 13.1320 | mechanics teaching | 51.1511 | medical family therapy |
| 15.0407 | mechatronics engineering technician | 61.0118 | medical genetics and genomics, and maternal-fetal medicine - combined specialty |
| 15.0407 | mechatronics engineering technology | 61.0118 | medical genetics and genomics/maternal-fetal medicine - combined specialty |
| 14.4201 | mechatronics engineering | 26.0806 | medical genetics |
| 15.0407 | mechatronics technician | 51.3204 | medical humanities |
| 15.0407 | mechatronics technology | 51.2703 | medical illustration |
| 15.0407 | mechatronics, robotics, and automation engineering technician | 51.2703 | medical illustrator |
| 15.0407 | mechatronics, robotics, and automation engineering technology | 51.2706 | medical informatics |
| 14.4201 | mechatronics, robotics, and automation engineering | 51.0714 | medical insurance biller |
| 16.1001 | Mechif language | 51.0714 | medical insurance billing specialist |
| 09.0102 | media communications | 51.0714 | medical insurance billing |
| 09.0102 | media studies | 51.0715 | medical insurance claims examiner |
| 51.0701 | medical administration | 51.0713 | medical insurance coder |
| 51.0716 | medical administrative assistant | 51.0713 | medical insurance coding specialist |
| 12.0414 | medical aesthetician | 51.0713 | medical insurance coding |
| 45.0203 | medical anthropology | 51.0802 | medical lab assistant |
| 51.0706 | medical archive management | 51.1004 | medical lab technician |
| 51.0707 | medical archives technology | 51.0802 | medical laboratory assistant |
| 51.0801 | medical assistant | 51.1005 | medical laboratory science |
| 51.0714 | medical biller | 51.1005 | medical laboratory technical supervisor |
| 51.0714 | medical billing | 51.1004 | medical laboratory technician |
| 61.0904 | medical biochemical genetics - residency | 51.1005 | medical laboratory technologist |
| 26.0299 | medical biochemistry | 51.9980 | medical marijuana education for health professionals |
| 26.0102 | medical biology | 51.9980 | medical marijuana education for healthcare professionals |
| 52.1880 | medical cannabis sales | 01.0480 | medical marijuana extraction technician |
| 51.9980 | medical cannabis training for health professionals | 51.9980 | medical marijuana information for health professionals |
| 51.0715 | medical claims examiner | 51.9980 | medical marijuana information for healthcare professionals |
| 51.0710 | medical clerk | | |

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| 52.1880 | medical marijuana sales | 51.0708 | medical terminology |
| 51.9980 | medical marijuana training for health professionals | 61.0208 | medical toxicology - fellowship |
| 61.1811 | medical microbiology - fellowship | 51.0708 | medical transcription |
| 26.0503 | medical microbiology and bacteriology | 51.0708 | medical transcriptionist |
| 26.0508 | medical microbiology and immunology | 51.9999 | medical triage |
| 26.0503 | medical microbiology | 51.0910 | medical ultrasound technology |
| 26.1599 | medical neurobiology | 51.0703 | medical unit clerk |
| 61.2605 | medical nuclear physics - residency | 51.0711 | medical/health management and clinical assistant/specialist |
| 51.0705 | medical office administration | 51.2603 | medication aide |
| 51.0710 | medical office assistant | 60.0819 | medication systems and operations pharmacy - fellowship |
| 51.0709 | medical office computer assistant | 60.0819 | medication systems and operations pharmacy - residency |
| 51.0709 | medical office computer specialist | 60.0820 | medication-use safety pharmacy - fellowship |
| 51.0705 | medical office management | 60.0820 | medication-use safety pharmacy - residency |
| 51.0705 | medical office manager | 51.2004 | medicinal and pharmaceutical chemistry |
| 51.0712 | medical office receptionist | 51.2004 | medicinal chemistry |
| 61.0813 | medical oncology - fellowship | 51.1201 | medicine |
| 51.2205 | medical physics | 30.1301 | medieval and renaissance studies |
| 42.2810 | medical psychology | 16.1202 | medieval Greek |
| 51.0999 | medical radiation sciences | 54.0199 | medieval history |
| 51.0911 | medical radiation technologist | 16.1203 | Medieval Latin |
| 51.0911 | medical radiation technology | 30.1301 | medieval studies |
| 51.0911 | medical radiographer | 34.0105 | meditation (not for credit) |
| 51.0999 | medical radiologic science | 52.0907 | meeting and event planning |
| 51.0911 | medical radiologic technologist | 05.0109 | Melanesian studies |
| 51.0911 | medical radiologic technology | 12.0407 | men's hairdressing |
| 51.0712 | medical receptionist | 51.1502 | mental health care |
| 51.0706 | medical records administration | 51.1508 | mental health counselling |
| 51.0706 | medical records administrator | 51.1508 | mental health counsellor |
| 51.0706 | medical records management | 60.0738 | mental health nurse practitioner - fellowship |
| 51.0707 | medical records technician | 60.0738 | mental health nurse practitioner - residency |
| 51.0707 | medical records technology | 60.0738 | mental health nurse practitioner |
| 51.1401 | medical research (MS, MSc, PhD) | 51.3810 | mental health nurse |
| 51.1401 | medical science (MS, MSc, PhD) | 51.3810 | mental health nursing |
| 51.1401 | medical scientist (MS, MSc, PhD) | 51.1502 | mental health services technician |
| 51.0716 | medical secretarial | 52.1802 | merchandising and buying operations |
| 51.0716 | medical secretary | 52.1802 | merchandising |
| 51.1503 | medical social work | 15.0806 | merchant marine engineer |
| 51.0910 | medical sonography | | |
| 51.0717 | medical staff services technician | | |
| 51.0717 | medical staff services technology | | |
| 51.0708 | medical stenographer | | |
| 51.1005 | medical technologist | | |

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| 49.0309 | merchant marine officer | 01.1099 | microdistilling |
| 49.0309 | merchant marine | 15.0399 | microelectronics technology |
| 15.0901 | metal and mineral processing technology | 16.1401 | Micronesian languages |
| 50.0714 | metal arts | 05.0109 | Micronesian studies |
| 46.0411 | metal building assembler | 11.0203 | Microsoft certification |
| 46.0411 | metal building assembly | 11.0203 | Microsoft Certified Systems Administrator |
| 14.2001 | metal engineering | 11.0203 | Microsoft Certified Systems Engineer |
| 48.0511 | metal fabricator (fitter) | 11.0203 | Microsoft Certified Technology Specialist |
| 48.0511 | metal fabricator | 54.0199 | Middle East history |
| 48.0507 | metal pattern maker | 16.1100 | Middle Eastern languages |
| 48.0507 | metal pattern making | 16.1100 | Middle Eastern linguistics |
| 48.0511 | metal shaping and assembly | 16.1100 | Middle Eastern literature |
| 46.0411 | metal structure assembler | 05.0108 | Middle Eastern studies |
| 46.0411 | metal structure assembly | 13.0408 | middle school administration |
| 15.0611 | metallurgical engineering technology | 13.1203 | middle school education |
| 14.2001 | metallurgical engineering | 13.1311 | middle school mathematics teacher education |
| 15.0611 | metallurgical technician | 13.0408 | middle school principal |
| 15.0611 | metallurgical technology | 13.1203 | middle school teacher |
| 14.2001 | metallurgy engineering | 51.3401 | midwife |
| 15.0611 | metallurgy technician | 51.3401 | midwifery |
| 15.0611 | metallurgy technology | 16.1001 | Mi'gmaq language |
| 40.1099 | metallurgy | 16.1001 | Mi'kmaw language |
| 14.1801 | metals and materials engineering | 29.0501 | military aircraft structures technician |
| 38.0199 | metaphysics | 29.0501 | military airframe technician |
| 41.0399 | meteorological technician | 29.0501 | military ammunition technician |
| 40.0404 | meteorologist | 28.0801 | military and strategic studies |
| 40.0404 | meteorology | 29.0501 | military applied sciences |
| 45.0102 | methodology, measurement, and statistics | 28.0801 | military arts and science |
| 05.0203 | Mexican American studies | 29.0501 | military aviation systems technician |
| 16.0399 | Miao | 29.0501 | military avionics systems technician |
| 16.1001 | Michif language | 29.0501 | military communications technician |
| 16.1001 | Micmac language | 29.0501 | military electronics technician |
| 26.0803 | microbial and eukaryotic genetics | 29.0501 | military engineering |
| 14.4501 | microbiological engineering | 54.0108 | military history |
| 26.0508 | microbiology and immunology | 29.0501 | military intelligence |
| 26.0502 | microbiology | 28.0801 | military leadership |
| 01.1003 | microbrewer | 28.0801 | military operations |
| 01.1003 | microbrewing | 28.0801 | military psychology and leadership |
| 15.0306 | microcircuit mask design | 29.0501 | military radar technician |
| 11.0601 | microcomputer applications | 28.0801 | military science |
| 11.0601 | microcomputer business applications | 29.0501 | military search and rescue technician |
| 47.0104 | microcomputer repair | 28.0801 | military studies |
| 15.1202 | microcomputer technician | | |

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| 29.0501 | military technologies and applied sciences | 11.0205 | mobile application development |
| 29.0501 | military technologies | 11.0205 | mobile application programming |
| 29.0501 | military technology and applied sciences management | 49.0206 | mobile crane operation |
| 29.0501 | military weapons technician | 49.0206 | mobile crane operator |
| 01.0306 | milk grading | 11.0205 | mobile web design |
| 01.0306 | milk production | 52.0209 | mobility management |
| 03.0509 | milling lumber | 11.0804 | modeling, virtual environments and simulation |
| 48.0703 | millwork | 16.1199 | modern Assyrian |
| 47.0303 | millwright | 16.1203 | modern Church Latin |
| 34.0105 | mind-body wellness (not for credit) | 50.0301 | modern dance |
| 51.3699 | mindful meditation | 05.0106 | modern European studies |
| 51.3699 | mindfulness and meditation | 16.0601 | modern Greek language and literature |
| 03.0204 | mineral economics | 16.0601 | modern Greek language |
| 14.2101 | mineral engineering | 16.0601 | modern Greek literature |
| 40.0606 | mineralogy | 16.0601 | modern Greek |
| 14.9999 | mining and materials engineering | 38.0204 | modern Hinduism |
| 14.2101 | mining and mineral engineering | 54.0199 | modern history |
| 14.2101 | mining and mineral process engineering | 16.0101 | modern languages |
| 15.0901 | mining and mineral processing technician | 05.0108 | modern Middle Eastern studies |
| 15.0901 | mining and mineral processing | 16.0599 | Modern Scots |
| 15.0901 | mining engineering technician | 16.1501 | modern Turkish |
| 15.0901 | mining engineering technology | 16.1001 | Mohawk language |
| 14.2101 | mining engineering | 48.0507 | molder-founder |
| 15.0901 | mining technician | 26.1501 | molecular and cellular neuroscience |
| 15.0901 | mining technology | 26.0205 | molecular biochemistry |
| 39.0602 | minister of religion | 26.0204 | molecular biology |
| 39.0602 | ministerial studies | 26.0206 | molecular biophysics |
| 39.0602 | ministry | 61.1812 | molecular genetic pathology - fellowship |
| 14.0201 | missile systems engineering | 26.0802 | molecular genetics |
| 39.0301 | missiology | 26.1401 | molecular medicine |
| 39.0301 | mission studies and interreligious dialogue | 26.1002 | molecular pharmacology |
| 39.0301 | mission studies | 40.0802 | molecular physics |
| 39.0301 | missionary studies | 26.0902 | molecular physiology |
| 39.0301 | missionary | 26.1005 | molecular toxicology |
| 39.0301 | missions | 16.1504 | Mongolian language and literature |
| 16.1001 | Mitchif language | 16.1504 | Mongolian language |
| 12.0502 | mixology | 16.1504 | Mongolian literature |
| 11.0205 | mobile and web application development | 16.1504 | Mongolian |
| 11.0205 | mobile app development | 13.1207 | Montessori preschool teacher |
| 11.0205 | mobile app programming | 13.1207 | Montessori teacher education |
| 11.0205 | mobile application design and development | 13.1207 | Montessori teacher |
| | | 13.1207 | Montessori teaching |

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| 38.0209 | Mormon studies | 30.9999 | multidisciplinary studies |
| 52.0809 | mortgage broker | 49.0102 | multi-engine pilot |
| 12.0303 | mortician and embalmer | 11.0801 | multimedia and web |
| 12.0303 | mortician and embalming | 50.0706 | multimedia art |
| 12.0303 | mortician | 09.0702 | multimedia communications |
| 12.0303 | mortuary science and embalmer | 44.0401 | municipal administration |
| 12.0303 | mortuary science and embalming | 04.0301 | municipal and regional planning |
| 12.0303 | mortuary science | 22.0299 | municipal law (graduate level) |
| 52.0904 | motel administration | 04.0301 | municipal planning |
| 52.0904 | motel management | 44.0401 | municipal services management |
| 19.0709 | mothercraft | 61.1502 | musculoskeletal oncology - fellowship |
| 10.0201 | motion picture and theatre grip | 61.2606 | musculoskeletal radiology - fellowship |
| 50.0502 | motion picture and theatre set dresser | 30.1401 | museology |
| 50.0602 | motion picture production | 50.0510 | museum costumes |
| 50.0601 | motion picture studies | 30.1401 | museum curator |
| 36.0205 | motorcycle licence exam preparation (not for credit) | 30.1401 | museum management |
| 47.0611 | motorcycle mechanics | 30.1401 | museum studies |
| 47.0199 | motor rewinding | 30.1401 | museum technology |
| 47.0603 | motor vehicle body refinisher | 50.0907 | music - keyboard |
| 47.0603 | motor vehicle body repair | 50.0916 | music - percussion |
| 47.0603 | motor vehicle body repairer (painter) | 50.0908 | music - vocal |
| 47.0604 | motor vehicle mechanic | 36.0115 | music (not for credit) |
| 47.0199 | motor winding | 50.1003 | music administrative studies |
| 36.0205 | motorcycle driver education (not for credit) | 39.0502 | music and theatrical arts in Christian worship |
| 47.0611 | motorcycle maintenance | 50.0904 | music arranging |
| 47.0611 | motorcycle mechanic | 50.1003 | music business |
| 47.0611 | motorcycle repair | 50.0904 | music composition |
| 36.0205 | motorcycle rider education (not for credit) | 50.0906 | music conducting |
| 36.0205 | motorcycle safety course (not for credit) | 50.0902 | music criticism |
| 47.0611 | motorcycle service technician | 13.1312 | music education |
| 47.0611 | motorcycle technician | 50.0901 | music foundation |
| 15.0807 | motorsports engineering technician | 50.0902 | music history and literature |
| 15.0807 | motorsports engineering technology | 50.0902 | music history |
| 48.0507 | mould maker | 50.1003 | music industry management |
| 48.0507 | mould making | 50.0902 | music literature |
| 31.0601 | mountain guide | 50.1003 | music management |
| 51.3601 | movement therapy | 50.1003 | music merchandising |
| 51.0920 | MRI technician | 39.0599 | music ministry |
| 51.0920 | MRI technology | 50.0912 | music pedagogy |
| 47.0699 | muffler installer | 50.0903 | music performance studies |
| 30.2301 | multicultural and diversity studies | 50.0903 | music performance |
| 13.0202 | multicultural education | 50.0999 | music production |

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| 15.0307 | music recording engineering | 13.1501 | Native classroom assistant |
| 10.0203 | music recording | 19.0701 | Native family and child development |
| 13.1312 | music teacher education | 16.1001 | Native language studies |
| 13.1312 | music teacher | 13.1306 | Native language teacher |
| 13.1312 | music teaching | 16.1001 | Native language |
| 50.0913 | music technology | 16.1001 | Native languages and literature |
| 50.0509 | music theatre | 39.0602 | Native ministry |
| 50.0904 | music theory and composition | 05.0202 | Native studies |
| 50.0904 | music theory | 13.0203 | Native teacher education |
| 51.2305 | music therapist | 46.0504 | natural gas drilling |
| 51.2305 | music therapy | 47.0614 | natural gas powered vehicle service technician |
| 39.0502 | music worship arts | 12.0407 | natural hair braider |
| 50.0901 | music | 51.2005 | natural products chemistry and pharmacognosy |
| 39.0502 | musical and theatrical arts in Christian worship | 51.2005 | natural products chemistry |
| 50.0901 | musical arts | 03.0204 | natural resource economics |
| 47.0404 | musical instrument fabrication | 03.0201 | natural resource management |
| 47.0404 | musical instrument repair | 03.0207 | natural resource recreation |
| 50.0904 | musical orchestration | 03.0101 | natural resource science |
| 50.0509 | musical theatre performance | 03.0207 | natural resource tourism |
| 50.0509 | musical theatre | 03.0101 | natural resources conservation |
| 50.0905 | musicology | 03.0207 | natural resources interpretation |
| 38.0205 | muslim studies | 22.0101 | natural resources law (except graduate level) |
| 26.0506 | mycology | 22.0207 | natural resources law (graduate level) |
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| 16.1499 | Naga | 03.0208 | natural resources law enforcement |
| 12.0410 | nail technician | 03.0201 | natural resources management and policy |
| 12.0410 | nail technology | 03.0201 | natural resources policy |
| 15.1601 | nanoengineering technology | 03.0208 | natural resources protective services |
| 15.1601 | nanoengineering | 03.0101 | natural resources technology |
| 15.1601 | nanofabrication technology | 03.0101 | natural resources |
| 15.1601 | nanoscience technician | 30.1801 | natural sciences |
| 15.1601 | nanoscience technology | 36.0106 | nature appreciation (not for credit) |
| 15.1601 | nanotechnology | 03.0207 | nature-based tourism |
| 45.0902 | national security policy studies | 51.3303 | naturopath |
| 45.0902 | national security programme | 51.3303 | naturopathic doctor |
| 45.0902 | national security studies | 51.3303 | naturopathic medicine |
| 38.0299 | Native American religious traditions | 51.3303 | naturopathic physician |
| 05.0202 | Native American studies | 51.3303 | naturopathy |
| 50.0201 | Native arts | 49.0309 | nautical science |
| 16.1799 | Native as a second language | 15.9999 | naval architecture technology |
| | | 14.2201 | naval architecture |

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| 14.2201 | naval engineering | 26.1502 | neuroanatomy |
| 54.0108 | navy history | 26.1503 | neurobiology and anatomy |
| 05.0108 | Near and Middle Eastern civilizations | 26.1504 | neurobiology and behaviour |
| 05.0108 | Near and Middle Eastern studies | 26.1503 | neurobiology and neurophysiology |
| 16.1100 | Near Eastern languages | 26.1503 | neurobiology |
| 16.1100 | Near Eastern linguistics | 61.1106 | neurodevelopmental disabilities - fellowship |
| 16.1100 | Near Eastern literature | 26.0802 | neurogenetics |
| 05.0108 | Near Eastern studies | 37.0199 | neuro-linguistic programming (NLP) (not for credit) |
| 30.2801 | negotiation and dispute resolution | 51.3699 | neuro-linguistic programming (NLP) |
| 60.0725 | neonatal nurse practitioner - fellowship | 61.1001 | neurological surgery - residency |
| 60.0725 | neonatal nurse practitioner - residency | 61.1001 | neurological surgery/neurosurgery - residency |
| 60.0725 | neonatal nurse practitioner | 61.1101 | neurology - residency |
| 51.3806 | neonatal nurse | 60.0727 | neurology nurse practitioner - fellowship |
| 51.3806 | neonatal nursing | 60.0727 | neurology nurse practitioner - residency |
| 60.0821 | neonatal pharmacy - fellowship | 60.0823 | neurology pharmacy - fellowship |
| 60.0821 | neonatal pharmacy - residency | 60.0823 | neurology pharmacy - residency |
| 61.1905 | neonatal-perinatal medicine - fellowship | 61.1102 | neurology with special qualifications in child neurology - residency |
| 16.0799 | Nepalese | 61.0209 | neuromuscular medicine - fellowship |
| 61.0812 | nephrology - fellowship | 61.1702 | neuro-otology - fellowship |
| 60.0726 | nephrology nurse practitioner - fellowship | 61.1813 | neuropathology - fellowship |
| 60.0726 | nephrology nurse practitioner - residency | 26.1003 | neuropharmacology |
| 60.0726 | nephrology nurse practitioner | 26.1503 | neurophysiology |
| 51.3899 | nephrology nursing | 42.9999 | neuropsychology |
| 60.0822 | nephrology pharmacy - fellowship | 61.2607 | neuroradiology - fellowship |
| 60.0822 | nephrology pharmacy - residency | 60.0728 | neuroscience nurse practitioner - fellowship |
| 11.1001 | network administration | 60.0728 | neuroscience nurse practitioner - residency |
| 11.1001 | network administrator | 51.3899 | neuroscience nursing |
| 47.0103 | network cabling specialist (apprenticeship) | 26.1501 | neuroscience |
| 15.1299 | network engineering technician | 26.1501 | neurosciences |
| 15.1299 | network engineering technology | 61.1001 | neurosurgery - residency |
| 14.0999 | network engineering | 60.0916 | neurosurgery physician assistant - fellowship |
| 11.1002 | network management | 60.0916 | neurosurgery physician assistant - residency |
| 11.1002 | network manager | 60.0916 | neurosurgery physician associate - fellowship |
| 11.1003 | network security | 60.0916 | neurosurgery physician associate - residency |
| 11.1001 | network specialist | 61.1702 | neurotology - fellowship |
| 11.1001 | network support specialist | 01.1180 | new cannabis product development |
| 11.1001 | network support technician | | |
| 11.1001 | network technology | | |
| 15.0305 | network telecommunications engineering technology | | |
| 11.1001 | networking technology | | |
| 11.1001 | networking | | |
| 14.0501 | neural engineering | | |

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| 39.0201 | New Testament studies | 61.2608 | nuclear radiology - fellowship |
| 39.0201 | New Testament | 14.2301 | nuclear reactor engineering |
| 16.1401 | New Zealand aboriginal languages | 15.1702 | nuclear reactor operator |
| 16.1401 | New Zealand languages and literature | 41.0205 | nuclear technician |
| 05.0109 | New Zealand studies | 41.0205 | nuclear technologist |
| 15.0799 | non-destructive testing technology | 41.0205 | nuclear technology |
| 52.0206 | non-profit management | 32.0104 | numeracy (not for credit) |
| 52.0206 | non-profit organization management | 32.0104 | numeracy and computational skills (not for credit) |
| 52.0206 | non-profit sector management | 48.0510 | numerical control machine tool operation |
| 16.1001 | North American aboriginal languages | 48.0510 | numerical control operator |
| 05.0202 | Northern First Nations studies | 05.0202 | Nunavut Sivuniksavut |
| 45.0604 | northern international development | 51.3902 | nurse aide |
| 05.0136 | Northern studies | 51.3804 | nurse anesthetist |
| 16.0505 | Norwegian language and literature | 51.3802 | nurse management |
| 16.0505 | Norwegian language | 51.3807 | nurse midwife |
| 16.0505 | Norwegian literature | 60.0701 | nurse practitioner - fellowship |
| 16.0505 | Norwegian | 60.0701 | nurse practitioner - residency |
| 22.0299 | notarial law (graduate level) | 60.0701 | nurse practitioner |
| 22.0101 | notarial law (Quebec) | 01.0606 | nursery technology |
| 22.0101 | notary (Quebec) | 51.3802 | nursing administration |
| 22.9999 | notary public | 51.3902 | nursing aide |
| 40.0599 | nuclear chemistry | 51.3902 | nursing assistant (non-registered) |
| 41.0205 | nuclear energy technician | 51.3902 | nursing assistant |
| 15.1401 | nuclear engineering technician | 51.3203 | nursing education |
| 15.1401 | nuclear engineering technology | 51.0718 | nursing home administration |
| 14.2301 | nuclear engineering | 51.0718 | nursing home management |
| 14.2301 | nuclear fuels engineering | 51.3802 | nursing management |
| 51.0905 | nuclear medical technologist | 51.3807 | nursing midwifery |
| 51.0905 | nuclear medical technology | 51.3808 | nursing science |
| 61.1201 | nuclear medicine - residency | 51.3808 | nursing sciences (MSc, PhD) |
| 51.0905 | nuclear medicine radiographer | 51.3203 | nursing teaching |
| 51.0905 | nuclear medicine technician | 51.0703 | nursing unit clerk |
| 51.0905 | nuclear medicine technologist | 19.0505 | nutrition and food service management |
| 51.0905 | nuclear medicine technology | 30.1901 | nutrition and nutraceutical sciences |
| 60.0824 | nuclear pharmacy - fellowship | 19.0501 | nutrition and wellness |
| 60.0824 | nuclear pharmacy - residency | 30.1901 | nutrition science |
| 40.0806 | nuclear physics | 60.0825 | nutrition support pharmacy - fellowship |
| 14.2301 | nuclear power engineering | 60.0825 | nutrition support pharmacy - residency |
| 14.2301 | nuclear power plant engineering | 19.0501 | nutrition |
| 15.1702 | nuclear power plant operation | 30.1901 | nutritional science |
| 41.0205 | nuclear power technician | 51.3102 | nutritionist |
| 41.0205 | nuclear power technologist | | |
| 41.0205 | nuclear power technology | | |

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| 50.0915 | oboe | 16.1401 | Oceanic literature |
| 41.0399 | observer communicator, weather | 30.5001 | oceanography and mathematics |
| 61.1301 | obstetrics - residency | 40.0607 | oceanography |
| 61.1301 | obstetrics and gynecology - residency | 01.1004 | oenology |
| 60.0729 | obstetrics and gynecology nurse practitioner - fellowship | 52.0401 | office administration |
| 60.0729 | obstetrics and gynecology nurse practitioner - residency | 52.0407 | office automation |
| 16.0999 | Occitan | 52.0408 | office clerk |
| 51.3815 | occupational and environmental health nurse | 47.0102 | office equipment maintenance technology |
| 51.3815 | occupational and environmental health nursing | 47.0102 | office equipment maintenance |
| 51.2306 | occupational biomechanics | 47.0102 | office equipment repair |
| 51.2206 | occupational health and industrial hygiene | 47.0102 | office equipment technician |
| 51.3815 | occupational health and safety nursing | 47.0102 | office machine maintenance |
| 15.0701 | occupational health and safety technician | 47.0102 | office machine repair |
| 15.0701 | occupational health and safety technology | 47.0102 | office machine technician |
| 60.0730 | occupational health nurse practitioner - fellowship | 52.0204 | office management and supervision |
| 60.0730 | occupational health nurse practitioner - residency | 52.0204 | office management |
| 60.0730 | occupational health nurse practitioner | 52.0408 | office skills |
| 51.3815 | occupational health nurse | 52.0204 | office supervision |
| 51.3815 | occupational health nursing | 10.0307 | offset press operator |
| 61.2303 | occupational medicine - residency | 10.0307 | offset printing |
| 15.0701 | occupational safety and health technician | 49.0304 | offshore diver |
| 15.0701 | occupational safety and health technology | 46.0504 | oil and gas drilling |
| 51.0803 | occupational therapist assistant | 14.2501 | oil and gas engineering |
| 51.2306 | occupational therapist | 15.0903 | oil and gas field operations |
| 51.0817 | occupational therapy and physical therapy assistant | 47.0201 | oil burner mechanic |
| 51.0817 | occupational therapy and speech-language therapy assistant | 46.0504 | oil drilling |
| 51.0803 | occupational therapy assistant | 46.0504 | oil field drilling |
| 51.2306 | occupational therapy | 15.0903 | oil field safety |
| 22.0223 | ocean and coastal law (graduate level) | 15.0903 | oil field technology |
| 14.2401 | ocean engineering | 47.0201 | oil heat system technician |
| 16.1401 | Oceanian literature | 15.0903 | oil refining |
| 05.0109 | Oceanian studies | 46.0504 | oil well drilling |
| 16.1401 | Oceanic languages and literature | 46.0504 | oil well rigger |
| 16.1401 | Oceanic languages | 16.1001 | Ojibwa language |
| | | 16.1001 | Ojibway language |
| | | 16.1001 | Ojibwe language |
| | | 16.0499 | Old Church Slavonic |
| | | 16.0599 | Old Norse |
| | | 16.0599 | Old Saxon |
| | | 39.0201 | Old Testament studies |
| | | 39.0201 | Old Testament |
| | | 61.0813 | oncology - fellowship |
| | | 60.0799 | oncology nurse practitioner |

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| 51.3899 | oncology nursing | 51.1801 | opticianry |
| 60.0826 | oncology pharmacy - fellowship | 40.0807 | optics physics |
| 60.0826 | oncology pharmacy - residency | 40.0807 | optics |
| 26.0911 | oncology | 51.1802 | optometric assistant |
| 13.1211 | online educator | 51.1802 | optometric technician |
| 09.0401 | online journalism | 51.1701 | optometrist |
| 52.1880 | online medical cannabis sales | 51.1701 | optometry |
| 52.1880 | online medical marijuana sales | 51.3812 | OR nurse |
| 52.1880 | online retail cannabis sales | 51.0503 | oral and craniofacial biology (MS, MSc, PhD) |
| 52.1880 | online retail marijuana sales | 60.0104 | oral and maxillofacial pathology - residency |
| 13.1211 | online teacher | 51.0503 | oral and maxillofacial pathology (MS, MSc, PhD) |
| 13.1211 | online teaching and learning | 60.0109 | oral and maxillofacial radiology - residency |
| 13.1211 | online teaching | 60.0101 | oral and maxillofacial surgery - residency |
| 50.0908 | opera singing | 51.0507 | oral and maxillofacial surgery (Cert., MS, MSc, PhD) |
| 50.0908 | opera | 51.0503 | oral biology (MS, MSc, PhD) |
| 50.0908 | operatic performance | 51.0503 | oral biology and oral and maxillofacial pathology (MS, MSc, PhD) |
| 15.1702 | operating engineer | 51.0514 | oral implantology (Cert., MS, MSc, PhD) |
| 51.3812 | operating room nurse | 60.0104 | oral pathology specialty - residency |
| 51.3812 | operating room nursing | 60.0101 | oral surgery - residency |
| 51.0909 | operating room technician | 51.0507 | oral surgery (Cert., MS, MSc, PhD) |
| 51.0909 | operating room technologist | 50.0906 | orchestra conductor |
| 52.0303 | operational audit | 50.0906 | orchestral conducting |
| 52.0205 | operations management | 50.0903 | orchestral performance |
| 14.3701 | operations research | 50.0903 | orchestral training |
| 52.0205 | operations supervision | 39.0602 | ordained clergy |
| 52.0406 | operator-receptionist | 39.0602 | ordained minister |
| 51.1803 | ophthalmic assistant | 39.0701 | ordained pastor |
| 51.1801 | ophthalmic dispenser | 39.0602 | ordained priest |
| 51.1801 | ophthalmic dispensing optician | 51.2601 | orderly |
| 51.1801 | ophthalmic dispensing | 50.0907 | organ |
| 51.1006 | ophthalmic laboratory technician | 01.0308 | organic agriculture |
| 51.1006 | ophthalmic laboratory technologist | 40.0504 | organic chemistry |
| 51.1006 | ophthalmic laboratory technology | 01.0308 | organic farming inspection |
| 51.1803 | ophthalmic medical technologist | 01.0308 | organic farming |
| 51.1803 | ophthalmic medical technology | 13.0401 | organizational and administrative studies in education |
| 51.1803 | ophthalmic technician | 30.3301 | organizational and environmental sustainability |
| 51.1803 | ophthalmic technologist | 52.1003 | organizational behaviour studies |
| 61.1401 | ophthalmology - residency | 52.1003 | organizational behaviour |
| 14.1003 | optical engineering | | |
| 40.0807 | optical science | | |
| 15.0304 | optical technician | | |
| 15.0304 | optical technology | | |
| 51.1801 | optician | | |

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| 09.0901 | organizational communication | 51.0923 | orthopedic technician |
| 52.0213 | organizational leadership | 51.0923 | orthopedic technologist |
| 42.2804 | organizational psychology | 51.0923 | orthopedic technology |
| 16.9999 | Oriental languages | 61.1501 | orthopedics - residency |
| 51.3301 | Oriental medicine | 61.1501 | orthopedics/orthopedic surgery - residency |
| 21.0101 | orientation to trades | 51.1804 | orthoptics |
| 16.0799 | Oriya | 51.1804 | orthoptist |
| 60.0910 | ORL surgery physician assistant - fellowship | 51.2307 | orthotics |
| 60.0910 | ORL surgery physician assistant - residency | 51.2307 | orthotist |
| 60.0910 | ORL surgery physician associate - fellowship | 16.1299 | Oscan |
| 60.0910 | ORL surgery physician associate - residency | 51.1202 | osteopath |
| 01.0603 | ornamental horticulture production | 51.1202 | osteopathic medicine |
| 01.0603 | ornamental horticulture | 61.1601 | osteopathic neuromusculoskeletal medicine - residency |
| 51.1404 | orofacial pain | 51.1202 | osteopathy |
| 51.0699 | orthodontic assistant | 51.0817 | OTA/PTA |
| 60.0105 | orthodontics - residency | 16.1001 | Otchipwe language |
| 51.0508 | orthodontics (Cert., MS, MSc, PhD) | 52.0399 | other accounting and related services |
| 51.0508 | orthodontics and dentofacial orthopedics (Cert., MS, MSc, PhD) | 51.0599 | other advanced/graduate dentistry and oral sciences (Cert., MS, MSc, PhD) |
| 60.0105 | orthodontics specialty - residency | 14.0299 | other aerospace, aeronautical, and astronautical/space engineering |
| 51.0508 | orthodontist (Cert., MS, MSc, PhD) | 01.0599 | other agricultural and domestic animal services |
| 51.0508 | orthodontology (Cert., MS, MSc, PhD) | 01.0499 | other agricultural and food products processing |
| 39.0601 | orthodox theology | 01.9999 | other agricultural and veterinary sciences/services/operations and related fields |
| 61.1503 | orthopaedic sports medicine - fellowship | 01.0199 | other agricultural business and management |
| 48.0304 | orthopedic footwear repair | 01.0299 | other agricultural mechanization |
| 60.0731 | orthopedic nurse practitioner - fellowship | 01.0399 | other agricultural production operations |
| 60.0731 | orthopedic nurse practitioner - residency | 01.0899 | other agricultural public services |
| 61.1501 | orthopedic surgery - residency | 01.1399 | other agriculture or veterinary preparatory programs |
| 60.0732 | orthopedic surgery nurse practitioner - fellowship | 49.0199 | other air transportation |
| 60.0732 | orthopedic surgery nurse practitioner - residency | 61.0399 | other allergy and immunology fellowship programs |
| 61.1504 | orthopedic surgery of the spine - fellowship | 61.0399 | other allergy and immunology residency programs |
| 60.0917 | orthopedic surgery physician assistant - fellowship | 51.0899 | other allied health and medical assisting services |
| 60.0917 | orthopedic surgery physician assistant - residency | 51.0999 | other allied health diagnostic, intervention and treatment professions |
| 60.0917 | orthopedic surgery physician associate - fellowship | | |
| 60.0917 | orthopedic surgery physician associate - residency | | |

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| 51.3499 | other alternative and complementary medical support services | 52.9999 | other business, management, marketing and related support services |
| 51.3399 | other alternative and complementary medicine and medical systems | 51.9980 | other cannabis-related clinical sciences |
| 61.0499 | other anesthesiology fellowship programs | 51.9980 | other cannabis-related health professions |
| 61.0499 | other anesthesiology residency programs | 12.0699 | other casino operations and services |
| 01.8399 | other animal health technologies/ technicians | 26.0499 | other cell/cellular biology and anatomical sciences |
| 01.0999 | other animal sciences | 14.0799 | other chemical engineering |
| 45.0299 | other anthropology | 40.0599 | other chemistry |
| 19.0999 | other apparel and textiles | 33.0199 | other citizenship activities (not for credit) |
| 01.0699 | other applied horticulture/horticultural business services | 14.0899 | other civil engineering |
| 27.0399 | other applied mathematics | 30.2299 | other classical and ancient studies |
| 04.0899 | other architectural history, criticism, and conservation | 16.1299 | other Classics and classical languages, literatures and linguistics |
| 04.0999 | other architectural sciences and technology | 42.2899 | other clinical, counselling and applied psychology |
| 04.9999 | other architecture and related services | 51.1099 | other clinical/medical laboratory science/ research and allied professions |
| 04.0299 | other architecture | 30.2599 | other cognitive science |
| 05.0199 | other area studies | 32.9999 | other combined basis skills and general exam preparation (not for credit) |
| 05.9999 | other area, ethnic, cultural, gender, and group studies | 61.0199 | other combined medical fellowship programs |
| 50.1099 | other arts, entertainment, and media management | 61.0199 | other combined medical residency programs |
| 40.0299 | other astronomy and astrophysics | 61.0199 | other combined medical residency/ fellowship programs |
| 40.0499 | other atmospheric sciences and meteorology | 09.0199 | other communication and media studies |
| 10.0299 | other audiovisual communications technologies/technicians | 51.0299 | other communication disorders sciences and services |
| 32.0199 | other basic skills (not for credit) | 09.9999 | other communication, journalism and related programs |
| 13.0299 | other bilingual, multilingual and multicultural education | 10.9999 | other communications technologies/ technicians and support services |
| 26.0299 | other biochemistry/biophysics and molecular biology | 11.0199 | other computer and information sciences and support services, general |
| 26.9999 | other biological and biomedical science | 11.9999 | other computer and information sciences and support services |
| 26.1199 | other biomathematics, bioinformatics, and computational biology | 15.1299 | other computer engineering technologies/ technicians |
| 26.0399 | other botany/plant biology | 14.0999 | other computer engineering |
| 46.0499 | other building/construction finishing, management and inspection | 11.0299 | other computer programming |
| 52.0299 | other business administration, management and operations | 11.0899 | other computer software and media applications |
| 52.0599 | other business communications | 11.0999 | other computer systems networking and telecommunications |
| 52.0499 | other business operations support and assistant services | | |

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| 11.1099 | other computer/information technology administration and management | 47.0199 | other electrical/electronics maintenance and repair technologies/technicians |
| 52.2099 | other construction management | 15.0499 | other electromechanical technologies/technicians |
| 46.9999 | other construction trades | 61.0699 | other emergency medicine fellowship programs |
| 52.0599 | other corporate communications | 61.0699 | other emergency medicine residency programs |
| 12.0499 | other cosmetology and related personal grooming services | 14.4899 | other energy systems engineering |
| 43.0199 | other criminal justice and corrections | 47.0799 | other energy systems installation and repair |
| 12.0599 | other culinary arts and related services | 47.0799 | other energy systems maintenance and repair |
| 12.9999 | other culinary, entertainment, and personal services | 15.1799 | other energy systems technicians |
| 50.0399 | other dance | 15.1799 | other energy systems technologies |
| 30.7199 | other data analytics | 51.3799 | other energy-based and biologically-based therapies |
| 11.0699 | other data entry/microcomputer applications | 15.9999 | other engineering technologies and engineering-related fields |
| 30.7099 | other data science | 14.9999 | other engineering |
| 45.0599 | other demography | 15.1599 | other engineering-related fields |
| 60.0199 | other dental fellowship programs | 15.1199 | other engineering-related technologies/technicians |
| 60.0199 | other dental residency programs | 23.9999 | other English language and literature/letters |
| 51.0699 | other dental support services and allied professions | 23.1499 | other English literature |
| 61.0599 | other dermatology fellowship programs | 23.1399 | other English rhetoric and composition/writing studies |
| 61.0599 | other dermatology residency programs | 52.0799 | other entrepreneurial and small business operations |
| 50.0499 | other design and applied arts | 04.0499 | other environmental architecture |
| 51.3199 | other dietetics and clinical nutrition services | 15.0599 | other environmental control technologies/technicians |
| 30.5299 | other digital humanities and textual studies | 04.0499 | other environmental design |
| 15.1399 | other drafting/design engineering technologies/technicians | 03.0299 | other environmental/natural resources management and policy |
| 50.0599 | other drama/theatre arts and stagecraft | 05.0299 | other ethnic, cultural minority, gender, and group studies |
| 16.0399 | other East Asian languages, literatures and linguistics | 19.0499 | other family and consumer economics and related services |
| 26.1399 | other ecology, evolution, systematics and population biology | 19.0299 | other family and consumer sciences/human sciences business services |
| 45.0699 | other economics | 19.9999 | other family and consumer sciences/human sciences |
| 13.9999 | other education | 61.0799 | other family medicine fellowship programs |
| 13.0499 | other educational administration and supervision | 61.0799 | other family medicine residency programs |
| 13.0699 | other educational assessment, evaluation and research | | |
| 46.0399 | other electrical and power transmission installers | | |
| 14.1099 | other electrical, electronics and communications engineering | | |
| 15.0399 | other electrical/electronic engineering technologies/technicians | | |

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| 50.0699 | other film/video and photographic arts | 53.0199 | other high school/secondary diploma programs |
| 52.0899 | other finance and financial management services | 30.1299 | other historic preservation and conservation |
| 50.0799 | other fine arts and art studies | 54.0199 | other history |
| 43.0299 | other fire protection | 52.0999 | other hospitality administration/management |
| 01.1099 | other food science and technology | 19.0699 | other housing and human environments |
| 19.0599 | other foods, nutrition and related services | 19.0799 | other human development, family studies and related services |
| 03.0599 | other forestry | 52.1099 | other human resources management and services |
| 55.9999 | other French language and literature/letters | 16.9999 | other Indigenous and foreign languages, literatures and linguistics |
| 55.1499 | other French literature | 15.0699 | other industrial production technologies/technicians |
| 55.1399 | other French rhetoric and composition/writing studies | 61.0899 | other internal medicine fellowship programs |
| 12.0399 | other funeral service and mortuary science | 61.0899 | other internal medicine residency programs |
| 32.0299 | other general exam preparation and test-taking skills (not for credit) | 45.0999 | other international relations and national security studies |
| 52.1899 | other general sales, merchandising and related marketing operations | 35.0199 | other interpersonal and social skills (not for credit) |
| 45.0199 | other general social sciences | 09.0499 | other journalism |
| 26.0899 | other genetics | 48.0399 | other leatherworking and upholstery |
| 45.0799 | other geography and cartography | 22.9999 | other legal professions and studies |
| 40.0699 | other geological and Earth sciences/geosciences | 22.0299 | other legal research and advanced professional studies |
| 16.0599 | other Germanic languages, literatures and linguistics | 22.0399 | other legal support services |
| 51.1499 | other graduate medical studies | 36.0199 | other leisure and recreational activities (not for credit) |
| 10.0399 | other graphic communications | 36.9999 | other leisure and recreational activities and noncommercial vehicle operation (not for credit) |
| 49.0299 | other ground transportation | 24.0199 | other liberal arts and sciences, general studies and humanities |
| 51.2699 | other health aides/attendants/orderlies | 25.0199 | other library science and administration |
| 51.0799 | other health and medical administrative services | 25.9999 | other library science |
| 51.9999 | other health professions and related programs | 16.0199 | other linguistic, comparative and related language studies and services |
| 51.3299 | other health professions education, ethics, and humanities | 52.1299 | other management information systems and services |
| 60.9999 | other health professions fellowship programs | 52.1399 | other management sciences and quantitative methods |
| 60.9999 | other health professions residency programs | 49.0399 | other marine transportation |
| 51.1199 | other health/medical preparatory programs | 52.1499 | other marketing |
| 34.0199 | other health-related knowledge and skills (not for credit) | | |
| 47.0399 | other heavy/industrial equipment maintenance technologies/technicians | | |
| 53.0299 | other high school/secondary certificate programs | | |

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| 40.1099 | other materials sciences | 61.1299 | other nuclear medicine fellowship programs |
| 27.9999 | other mathematics and statistics | 61.1299 | other nuclear medicine residency programs |
| 27.0199 | other mathematics | 60.0799 | other nurse practitioner fellowship programs |
| 47.9999 | other mechanic and repair technologies/technicians | 60.0799 | other nurse practitioner residency programs |
| 15.0899 | other mechanical engineering related technologies/technicians | 61.1399 | other obstetrics and gynecology fellowship programs |
| 51.1499 | other medical clinical sciences | 61.1399 | other obstetrics and gynecology residency programs |
| 61.9999 | other medical fellowship programs | 51.1899 | other ophthalmic and optometric support services and allied professions |
| 61.0999 | other medical genetics and genomics fellowship programs | 61.1499 | other ophthalmology fellowship programs |
| 61.0999 | other medical genetics and genomics residency programs | 61.1499 | other ophthalmology residency programs |
| 51.2799 | other medical illustration and informatics | 61.1599 | other orthopedic surgery fellowship programs |
| 61.9999 | other medical residency programs | 61.1599 | other orthopedic surgery residency programs |
| 51.1299 | other medicine | 61.1699 | other osteopathic medicine fellowship programs |
| 51.1599 | other mental and social health services and allied professions | 61.1699 | other osteopathic medicine residency programs |
| 26.0599 | other microbiological sciences and immunology | 61.1799 | other otolaryngology fellowship programs |
| 16.1199 | other Middle/Near Eastern and Semitic languages, literatures and linguistics | 61.1799 | other otolaryngology residency programs |
| 15.0999 | other mining and petroleum technologies/technicians | 31.0399 | other parks, recreation, and leisure facilities management |
| 39.0399 | other missionary studies and missiology | 31.9999 | other parks, recreation, leisure and fitness studies |
| 51.3699 | other movement and mind-body therapies | 39.0799 | other pastoral counselling and specialized ministries |
| 30.9999 | other multidisciplinary/interdisciplinary studies | 61.1899 | other pathology fellowship programs |
| 61.0299 | other multiple-pathway medical fellowship programs | 61.1899 | other pathology residency programs |
| 50.0999 | other music | 61.1999 | other pediatrics fellowship programs |
| 03.9999 | other natural resources and conservation | 61.1999 | other pediatrics residency programs |
| 03.0199 | other natural resources conservation and research | 37.0199 | other personal awareness and self-improvement (not for credit) |
| 26.1599 | other neurobiology and neurosciences | 26.1099 | other pharmacology and toxicology |
| 61.1099 | other neurological surgery fellowship programs | 60.0899 | other pharmacy fellowship programs |
| 61.1099 | other neurological surgery residency programs | 60.0899 | other pharmacy residency programs |
| 61.1199 | other neurology fellowship programs | 51.2099 | other pharmacy, pharmaceutical sciences and administration |
| 61.1199 | other neurology residency programs | 38.9999 | other philosophy and religious studies |
| 36.0299 | other noncommercial vehicle operation (not for credit) | 38.0199 | other philosophy, logic and ethics |
| 22.0099 | other non-professional legal studies | 61.2099 | other physical medicine and rehabilitation fellowship programs |
| 41.0299 | other nuclear and industrial radiologic technologies/technicians | | |

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| 61.2099 | other physical medicine and rehabilitation residency programs | 15.0799 | other quality control and safety technologies/technicians |
| 41.0399 | other physical science technologies/technicians | 61.2599 | other radiation oncology fellowship programs |
| 40.9999 | other physical sciences | 61.2599 | other radiation oncology residency programs |
| 60.0999 | other physician assistant fellowship programs | 09.0799 | other radio, television and digital communication |
| 60.0999 | other physician assistant residency programs | 61.2699 | other radiology fellowship programs |
| 60.0999 | other physician associate fellowship programs | 61.2699 | other radiology residency programs |
| 60.0999 | other physician associate residency programs | 51.3899 | other registered nursing, nursing administration, nursing research and clinical nursing |
| 40.0899 | other physics | 51.2399 | other rehabilitation and therapeutic professions |
| 26.0999 | other physiology, pathology and related sciences | 38.0299 | other religion/religious studies |
| 01.1199 | other plant sciences | 39.0899 | other religious institution administration and law |
| 61.2199 | other plastic surgery fellowship programs | 39.0899 | other religious law |
| 61.2199 | other plastic surgery residency programs | 39.0599 | other religious music and worship |
| 46.0599 | other plumbing and related water supply services | 42.2799 | other research and experimental psychology |
| 61.2299 | other podiatric medicine fellowship programs | 16.0999 | other Romance languages, literatures and linguistics |
| 61.2299 | other podiatric medicine residency programs | 41.9999 | other science technologies/technicians |
| 45.1099 | other political science and government | 16.1799 | other second language learning |
| 51.3999 | other practical nursing, vocational nursing and nursing assistants | 43.0399 | other security and protective services, specialized programs |
| 48.0599 | other precision metal working | 43.9999 | other security and protective services |
| 48.9999 | other precision production | 43.0499 | other security science and technology |
| 47.0499 | other precision systems maintenance and repair technologies/technicians | 16.1699 | other sign language |
| 61.2399 | other preventive medicine fellowship programs | 16.0499 | other Slavic, Baltic and Albanian languages, literatures and linguistics |
| 61.2399 | other preventive medicine residency programs | 45.9999 | other social sciences |
| 61.2499 | other psychiatry fellowship programs | 44.0799 | other social work |
| 61.2499 | other psychiatry residency programs | 45.1199 | other sociology |
| 42.9999 | other psychology | 01.1299 | other soil sciences |
| 44.9999 | other public administration and social service professions | 51.3599 | other somatic bodywork and related therapeutic services |
| 44.0499 | other public administration | 16.0799 | other South Asian languages, literatures and linguistics |
| 51.2299 | other public health | 16.1499 | other Southeast Asian and Australasian/Pacific languages, literatures and linguistics |
| 44.0599 | other public policy analysis | 13.1099 | other special education and teaching |
| 09.0999 | other public relations, advertising and applied communication | | |

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| 52.1999 | other specialized sales, merchandising and marketing operations | 60.0910 | otorhinolaryngology surgery physician assistant - residency |
| 31.0599 | other sports, kinesiology, and physical education/physical fitness | 60.0910 | otorhinolaryngology surgery physician associate - fellowship |
| 27.0599 | other statistics | 60.0910 | otorhinolaryngology surgery physician associate - residency |
| 13.1199 | other student counselling and personnel services | 16.1501 | Ottoman Turkish |
| 61.2799 | other surgery fellowship programs | 47.0616 | outboard mechanic |
| 61.2799 | other surgery residency programs | 47.0616 | outboard motor mechanic |
| 13.1299 | other teacher education and professional development, specific levels and methods | 31.0601 | outdoor adventure course instructor |
| 13.1399 | other teacher education and professional development, specific subject areas | 31.0601 | outdoor education |
| 13.1599 | other teaching assistants/aides | 47.0606 | outdoor power equipment technician |
| 13.1499 | other teaching English or French as a second or foreign language | 31.0601 | outdoor recreation educator |
| 39.0699 | other theological and ministerial studies | 31.0601 | outdoor recreation leadership |
| 39.9999 | other theology and religious vocations | 31.0504 | outdoor recreation management |
| 49.9999 | other transportation and materials moving | 31.0601 | outdoor recreation technician |
| 16.1599 | other Turkic, Uralic-Altaic, Caucasian and Central Asian languages | | |
| 61.2899 | other urology fellowship programs | P | |
| 61.2899 | other urology residency programs | 05.0199 | Pacific and Asian studies |
| 47.0699 | other vehicle maintenance and repair technologies | 16.1401 | Pacific languages and literature |
| 01.8299 | other veterinary administrative services | 05.0199 | Pacific Rim studies |
| 01.8199 | other veterinary biomedical and clinical sciences | 05.0109 | Pacific studies |
| 60.0399 | other veterinary fellowship programs | 15.1503 | packaging science |
| 60.0399 | other veterinary residency programs | 51.1403 | pain control |
| 01.8399 | other veterinary technologies/technicians | 51.3899 | pain management (college) |
| 50.9999 | other visual and performing arts | 51.1403 | pain management (university) |
| 48.0799 | other woodworking | 60.0733 | pain management nurse practitioner - fellowship |
| 26.0799 | other zoology/animal biology | 60.0733 | pain management nurse practitioner - residency |
| 61.1701 | otolaryngology - residency | 60.0827 | pain management pharmacy - fellowship |
| 60.0910 | otolaryngology surgery physician assistant - fellowship | 60.0827 | pain management pharmacy - residency |
| 60.0910 | otolaryngology surgery physician assistant - residency | 51.1403 | pain management |
| 60.0910 | otolaryngology surgery physician associate - fellowship | 61.0210 | pain medicine - fellowship |
| 60.0910 | otolaryngology surgery physician associate - residency | 46.0408 | painter and wall coverer |
| 61.1701 | otorhinolaryngology - residency | 47.0603 | painting (autobody) |
| 60.0910 | otorhinolaryngology surgery physician assistant - fellowship | 50.0708 | painting, fine arts |
| | | 40.0604 | palaeontology |
| | | 16.1103 | Palaic |
| | | 45.0202 | paleoanthropology |
| | | 40.0604 | paleontology |
| | | 51.1512 | palliative and hospice care |

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| 60.0734 | palliative care nurse practitioner - fellowship | 31.0101 | parks, recreation and leisure |
| 60.0734 | palliative care nurse practitioner - residency | 40.0804 | particle physics |
| 60.0734 | palliative care nurse practitioner | 52.0409 | parts and warehousing management |
| 51.3819 | palliative care nurse | 47.0409 | parts and warehousing operations and maintenance |
| 51.3819 | palliative care nursing | 47.0409 | parts and warehousing |
| 60.0827 | palliative care pharmacy - fellowship | 52.0409 | parts management |
| 60.0827 | palliative care pharmacy - residency | 47.0409 | parts person |
| 60.0827 | palliative care/pain management pharmacy - fellowship | 47.0409 | parts technician |
| 60.0827 | palliative care/pain management pharmacy - residency | 47.0409 | partsman/partswoman |
| 51.1512 | palliative care | 47.0409 | partsperson |
| 61.0205 | palliative medicine - fellowship | 39.0701 | pastor |
| 14.4001 | paper engineering | 39.0705 | pastoral associate |
| 03.0509 | paper making technology | 39.0705 | pastoral care |
| 03.0509 | paper making | 39.0701 | pastoral counselling |
| 14.4001 | paper science engineering | 39.0701 | pastoral leadership |
| 14.4001 | paper science | 39.0701 | pastoral ministry |
| 16.1401 | Papuan languages | 39.0701 | pastoral studies |
| 13.1501 | paraeducator | 39.0601 | pastoral theology |
| 22.0302 | paralegal assistant | 12.0501 | pastry chef |
| 22.0302 | paralegal services | 12.0501 | pastry |
| 22.0302 | paralegal studies | 22.9999 | patent agent |
| 22.0302 | paralegal | 22.0213 | patent law (graduate level) |
| 22.0302 | paralegalism | 22.0213 | patent prosecution (graduate level) |
| 51.0904 | paramedic | 51.0811 | pathologist assistant |
| 26.0505 | parasitology | 61.1801 | pathology - residency |
| 19.0712 | parent education services | 51.0811 | pathology assistant |
| 19.0712 | parent education teacher | 51.0811 | pathology technician |
| 19.0712 | parent education | 26.0910 | pathology |
| 34.0102 | parenting course (not for credit) | 51.3902 | patient care aide |
| 19.0712 | parenting education instructor training | 51.3902 | patient care assistant |
| 19.0712 | parenting education teacher | 51.1504 | patient navigator |
| 19.0712 | parenting education | 51.2213 | patient safety and healthcare quality |
| 34.0102 | parenting skills (not for credit) | 52.1099 | pay supervisor |
| 31.0301 | park facilities development and management | 52.1099 | payroll administration |
| 31.0301 | park facilities development | 52.1099 | payroll clerk |
| 31.0301 | park facilities management | 52.1099 | payroll compliance practitioner |
| 31.0101 | parks and recreation | 52.1099 | payroll management |
| 31.0301 | parks management | 30.0501 | peace and conflict resolution studies |
| 31.0101 | parks, recreation and leisure studies | 30.0501 | peace and conflict studies |
| | | 43.0107 | peace officer |
| | | 30.0501 | peace studies and conflict resolution |
| | | 30.0501 | peace studies |

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| 13.0501 | pedagogical use of the computer | 60.0918 | pediatric surgery physician associate - fellowship |
| 13.0101 | pedagogy | 60.0918 | pediatric surgery physician associate - residency |
| 61.1906 | pediatric cardiology - fellowship | 61.1917 | pediatric transplant hepatology - fellowship |
| 61.1907 | pediatric critical care medicine - fellowship | 61.2802 | pediatric urology - fellowship |
| 60.0106 | pediatric dentistry - residency | 61.1901 | pediatrics - residency |
| 51.0509 | pediatric dentistry (Cert., MS, MSc, PhD) | 61.0119 | pediatrics and anesthesiology - combined specialty |
| 61.0503 | pediatric dermatology - fellowship | 61.0120 | pediatrics and emergency medicine - combined specialty |
| 61.1908 | pediatric emergency medicine - fellowship | 61.0121 | pediatrics, and medical genetics and genomics - combined specialty |
| 61.1909 | pediatric endocrinology - fellowship | 61.0122 | pediatrics, and physical medicine and rehabilitation - combined specialty |
| 61.1910 | pediatric gastroenterology - fellowship | 61.0123 | pediatrics, psychology, and child and adolescent psychology - combined specialty |
| 61.1911 | pediatric hematology-oncology - fellowship | 61.0119 | pediatrics/anesthesiology - combined specialty |
| 60.0735 | pediatric hematology-oncology nurse practitioner - fellowship | 61.0120 | pediatrics/emergency medicine - combined specialty |
| 60.0735 | pediatric hematology-oncology nurse practitioner - residency | 61.0121 | pediatrics/medical genetics and genomics - combined specialty |
| 61.1911 | pediatric hemato-oncology - fellowship | 61.0122 | pediatrics/physical medicine and rehabilitation - combined specialty |
| 61.1912 | pediatric infectious diseases - fellowship | 61.0123 | pediatrics/psychology/child and adolescent psychology - combined specialty |
| 61.1913 | pediatric nephrology - fellowship | 12.0410 | pedicure |
| 61.1102 | pediatric neurology - residency | 51.0509 | pedodontics (Cert., MS, MSc, PhD) |
| 60.0736 | pediatric nurse practitioner - fellowship | 60.0106 | pedodontics specialty - residency |
| 60.0736 | pediatric nurse practitioner - residency | 51.2307 | pedorthics |
| 60.0736 | pediatric nurse practitioner | 51.2307 | pedorthist |
| 51.3809 | pediatric nurse | 50.0916 | percussion instruments |
| 60.0736 | pediatric nursing practitioner | 42.2815 | performance and sport psychology |
| 51.3809 | pediatric nursing | 42.2815 | performance psychology |
| 61.1505 | pediatric orthopedics - fellowship | 50.1001 | performing arts administration |
| 61.1703 | pediatric otolaryngology - fellowship | 50.0101 | performing arts |
| 61.1703 | pediatric otorhinolaryngology - fellowship | 51.0906 | perfusion technology |
| 61.1814 | pediatric pathology - fellowship | 51.0906 | perfusionist |
| 60.0828 | pediatric pharmacy - fellowship | 50.0903 | period instrument performance |
| 60.0828 | pediatric pharmacy - residency | 50.0903 | period instruments |
| 61.1914 | pediatric pulmonology - fellowship | 51.0510 | periodontics (Cert., MS, MSc, PhD) |
| 61.2609 | pediatric radiology - fellowship | 60.0107 | periodontics specialty - residency |
| 61.2003 | pediatric rehabilitation medicine - fellowship | 51.0510 | periodontist (Cert., MS, MSc, PhD) |
| 60.0737 | pediatric rehabilitation nurse practitioner - fellowship | 60.0107 | periodontology - residency |
| 60.0737 | pediatric rehabilitation nurse practitioner - residency | | |
| 61.1915 | pediatric rheumatology - fellowship | | |
| 61.2705 | pediatric surgery - fellowship | | |
| 60.0918 | pediatric surgery physician assistant - fellowship | | |
| 60.0918 | pediatric surgery physician assistant - residency | | |

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|----------------|--|----------------|--|
| 51.0510 | periodontology (Cert., MS, MSc, PhD) | 51.2011 | pharmaceutical and medical product management |
| 51.3812 | perioperative nurse | 51.2004 | pharmaceutical chemistry |
| 51.3812 | perioperative nursing | 51.2007 | pharmaceutical economics |
| 12.0411 | permanent makeup | 14.0799 | pharmaceutical engineering |
| 16.0801 | Persian language and literature | 51.2011 | pharmaceutical marketing and management |
| 16.0801 | Persian language | 51.2011 | pharmaceutical marketing |
| 16.0801 | Persian literature | 51.2010 | pharmaceutical science |
| 16.0801 | Persian | 51.2010 | pharmaceutical sciences |
| 37.0103 | personal decision-making skills (not for credit) | 51.1099 | pharmaceutical technician |
| 33.0106 | personal emergency preparedness (not for credit) | 51.1099 | pharmaceutical technology |
| 52.0804 | personal financial planner | 51.2003 | pharmaceutics and drug design |
| 52.0804 | personal financial planning | 51.2003 | pharmaceutics |
| 31.0507 | personal fitness trainer | 51.0805 | pharmacist assistant |
| 34.0103 | personal health improvement and maintenance (not for credit) | 51.2001 | pharmacist |
| 52.1701 | personal insurance | 51.2007 | pharmacoeconomics |
| 52.1908 | personal services marketing operations | 51.2005 | pharmacognosy |
| 51.2602 | personal support worker (PSW) | 26.1007 | pharmacology and toxicology |
| 51.2602 | personal support worker | 26.1001 | pharmacology |
| 31.0507 | personal trainer | 60.0829 | pharmacotherapy pharmacy - fellowship |
| 36.0206 | personal watercraft education (not for credit) | 60.0829 | pharmacotherapy pharmacy - residency |
| 36.0206 | personal watercraft operator (not for credit) | 51.2002 | pharmacy administration and pharmacy policy and regulatory affairs |
| 42.2705 | personality psychology | 60.0801 | pharmacy - fellowship |
| 52.1001 | personnel administration | 60.0801 | pharmacy - residency |
| 52.1001 | personnel management | 51.2002 | pharmacy administration |
| 01.1105 | pest extermination | 51.0805 | pharmacy assistant |
| 01.1105 | pest management | 13.1327 | pharmacy education |
| 01.0504 | pet grooming | 60.0830 | pharmacy informatics pharmacy - fellowship |
| 36.0107 | pet ownership and care (not for credit) | 60.0830 | pharmacy informatics pharmacy - residency |
| 01.0504 | pet stylist | 51.2002 | pharmacy policy |
| 14.2501 | petrochemical engineering | 51.2002 | pharmacy quality assurance and regulatory affairs |
| 15.0903 | petroleum and natural gas | 51.2002 | pharmacy regulatory affairs |
| 15.0903 | petroleum engineering technician | 51.0805 | pharmacy technician |
| 15.0903 | petroleum engineering technology | 51.0805 | pharmacy technology |
| 14.2501 | petroleum engineering | 51.2001 | pharmacy |
| 15.0903 | petroleum operations technician | 51.2001 | PharmD |
| 15.0903 | petroleum operations technology | 60.0713 | PHCNP - fellowship |
| 15.0903 | petroleum technician | 60.0713 | PHCNP - residency |
| 15.0903 | petroleum technology | 60.0713 | PHCNP |
| 40.0606 | petrology | | |

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| 38.0199 | phenomenology | 45.0202 | physical anthropology |
| 16.0102 | philology | 40.0506 | physical chemistry |
| 38.0001 | philosophy and religion | 31.0501 | physical education and health |
| 38.0001 | philosophy and religious studies | 31.0501 | physical education and recreation |
| 13.0901 | philosophy of education | 13.1314 | physical education teacher |
| 38.0199 | philosophy of language and the mind | 13.1314 | physical education teaching and coaching |
| 38.0199 | philosophy of language | 13.1314 | physical education teaching |
| 38.0199 | philosophy of mind | 31.0501 | physical education |
| 54.0104 | philosophy of science and technology | 31.0504 | physical fitness and leisure, management |
| 38.0199 | philosophy of science | 31.0507 | physical fitness technician |
| 30.5101 | philosophy, politics, and economics | 31.0501 | physical fitness |
| 38.0101 | philosophy | 45.0701 | physical geography |
| 51.1009 | phlebotomist | 61.2001 | physical medicine and rehabilitation - residency |
| 51.1009 | phlebotomy technician | 40.0607 | physical oceanography |
| 51.1009 | phlebotomy | 51.2009 | physical pharmacy and cosmetic sciences |
| 16.1103 | Phoenician | 51.2308 | physical rehabilitation therapist (PRT) |
| 10.0306 | photo engraving | 41.0399 | physical science technician |
| 10.0201 | photo lab technician | 40.0101 | physical sciences |
| 26.0208 | photobiology | 51.2308 | physical therapist |
| 47.0102 | photocopier technician | 51.2605 | physical therapy aide |
| 10.0201 | photofinishing | 51.0817 | physical therapy and speech-language therapy assistant |
| 45.0702 | photogrammetry | 51.0806 | physical therapy assistant |
| 50.0605 | photographic art | 51.2605 | physical therapy attendant |
| 10.0201 | photographic assistant | 51.2605 | physical therapy technician |
| 10.0201 | photographic technologist | 51.2308 | physical therapy |
| 50.0605 | photography (except commercial) | 31.0507 | physical trainer |
| 10.0201 | photography assistant | 60.0901 | physician assistant - fellowship |
| 10.0201 | photography technician | 60.0901 | physician assistant - residency |
| 10.0201 | photography, film and video - technologist/technician and assistant | 51.0912 | physician assistant |
| 09.0404 | photojournalism | 60.0901 | physician associate - fellowship |
| 50.0710 | photolithography | 60.0901 | physician associate - residency |
| 15.0304 | photonics engineering technology | 51.0912 | physician associate |
| 15.0304 | photonics technology | 51.1201 | physician |
| 15.1305 | photovoltaic (solar) design assistant | 40.0801 | physicist |
| 15.1703 | photovoltaic engineering technician | 40.1101 | physics and astronomy |
| 15.1703 | photovoltaic engineering technology | 13.1329 | physics education |
| 14.9999 | photovoltaic engineering | 13.1329 | physics teacher education |
| 47.0703 | photovoltaic installation | 13.1329 | physics teacher |
| 26.0399 | phycology | 41.0399 | physics technician |
| 31.0501 | physical activity and sport studies | 41.0399 | physics technology |
| 61.2001 | physical and rehabilitation medicine - residency | 40.0801 | physics |

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| 26.0909 | physiological optics | 01.0606 | plant nursery management |
| 42.2706 | physiological psychology | 01.0606 | plant nursery operations and management |
| 26.0901 | physiology | 01.0606 | plant nursery operations |
| 51.0806 | physiotherapist assistant | 26.0305 | plant pathology |
| 51.2308 | physiotherapist | 26.0307 | plant physiology |
| 51.2605 | physiotherapy aide | 01.1105 | plant protection |
| 51.0817 | physiotherapy and occupational therapy assistant | 01.1199 | plant science technology |
| 51.0806 | physiotherapy assistant | 01.1101 | plant sciences |
| 51.2605 | physiotherapy attendant | 40.0805 | plasma physics |
| 51.2605 | physiotherapy technician | 46.0404 | plasterer |
| 51.2308 | physiotherapy | 46.0404 | plastering |
| 26.0301 | phytochemistry | 13.1302 | plastic arts teaching |
| 26.0301 | phytology | 50.0702 | plastic arts |
| 26.0305 | phytopathology | 61.2101 | plastic surgery - residency |
| 51.3702 | phytotherapy | 61.2103 | plastic surgery within the head and neck - fellowship |
| 50.0907 | piano performance | 15.0607 | plastics engineering technician |
| 47.0404 | piano technician | 15.0607 | plastics engineering technology |
| 47.0404 | piano technology | 14.3201 | plastics engineering |
| 47.0404 | piano tuning | 15.0607 | plastics processing technology |
| 50.0907 | piano | 15.0607 | plastics technician |
| 50.0799 | picture framing | 15.0607 | plastics technology |
| 49.0202 | pile driving | 10.0306 | platemaker |
| 49.0108 | pilot instructor | 10.0306 | platemaking |
| 46.0502 | pipefitter - fire protection mechanic specialty | 51.2317 | play therapist |
| 46.0502 | pipefitter - heating system installer specialty | 51.2317 | play therapy |
| 46.0503 | pipefitter - plumber specialty | 50.0504 | playwriting |
| 47.0201 | pipefitter - refrigeration mechanic specialty | 36.0206 | pleasure craft operator (not for credit) |
| 46.0502 | pipefitter | 36.0206 | pleasure craft operator card (PCOC) (not for credit) |
| 46.0502 | pipefitting | 36.0206 | pleasure craft operator exam preparation (not for credit) |
| 01.0303 | pisciculture | 46.0413 | pliable floor covering installation |
| 47.0303 | planermill maintenance technician | 46.0503 | plumber |
| 40.0203 | planetary astronomy | 46.0503 | plumbing technology |
| 40.0203 | planetary science | 46.0503 | plumbing |
| 26.0301 | plant biology | 61.2201 | podiatric medicine - residency |
| 26.1201 | plant biotechnology | 61.2201 | podiatric medicine and surgery - 24 - residency |
| 01.1104 | plant breeding genetics | 61.2201 | podiatric medicine and surgery - 36 - residency |
| 01.1104 | plant breeding | 61.2201 | podiatric medicine and surgery - residency |
| 26.1301 | plant ecology | 61.2201 | podiatric medicine and surgery specialty in rearfoot and ankle surgery - residency |
| 26.0805 | plant genetics | | |
| 26.0308 | plant molecular biology | | |

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| 51.1203 | podiatric medicine | 05.0109 | Polynesian studies |
| 61.2201 | podiatric surgery - residency | 51.0917 | polysomnography technology |
| 51.1203 | podiatrist | 51.0917 | polysomnography |
| 51.1203 | podiatry | 30.2601 | popular culture studies |
| 51.1203 | podology | 50.0903 | popular music performance |
| 12.0602 | poker dealer | 26.1306 | population biology |
| 51.3703 | polarity therapist | 45.0501 | population studies |
| 51.3703 | polarity therapy | 16.0904 | Portuguese language and literature |
| 43.0103 | police administration | 16.0904 | Portuguese language |
| 43.0103 | police and security management | 16.0904 | Portuguese literature |
| 43.0107 | police constable | 16.0904 | Portuguese |
| 43.0107 | police foundations | 13.1214 | postsecondary instructor education |
| 43.0103 | police management | 13.1214 | postsecondary teacher education |
| 43.0107 | police science | 13.1214 | postsecondary teaching |
| 43.0107 | police studies | 51.1513 | post-traumatic stress disorder (PTSD) counselling |
| 43.0107 | police technology | 51.1513 | post-traumatic stress disorder counselling |
| 30.4501 | Polish history and language | 50.0711 | pottery |
| 16.0407 | Polish language and literature | 01.0302 | poultry husbandry |
| 16.0407 | Polish language | 01.0907 | poultry science |
| 16.0407 | Polish literature | 60.0318 | poultry veterinarian - residency |
| 16.0407 | Polish philology | 46.0302 | power electrician |
| 05.0129 | Polish studies | 15.1702 | power engineering technician |
| 16.0407 | Polish | 15.1702 | power engineering technology |
| 09.0904 | political communication | 14.4802 | power engineering |
| 45.1004 | political economy and government | 46.0303 | power line installation |
| 45.1004 | political economy | 46.0303 | power line maintenance |
| 30.4601 | political history | 46.0303 | power line repair |
| 09.0499 | political journalism | 46.0303 | power line technician |
| 45.1001 | political philosophy | 46.0303 | power lineman/linewoman |
| 09.0499 | political reporting | 15.1702 | power plant engineering technician |
| 45.1001 | political science and government | 15.1702 | power plant engineering technology |
| 30.4601 | political science and history | 14.4802 | power plant engineering |
| 13.1317 | political science education | 15.1702 | power plant operation |
| 45.1001 | political science | 15.1702 | power plant technician |
| 45.1004 | political studies and economy | 15.1702 | power plant technology |
| 45.1001 | political studies | 46.0302 | power station electrician |
| 30.5101 | politics, philosophy, and economics | 46.0302 | power system electrician |
| 40.0507 | polymer chemistry | 15.1702 | power system operation |
| 15.0607 | polymer engineering technician | 46.0302 | power systems electrician |
| 15.0607 | polymer engineering technology | 15.1702 | power systems operator |
| 14.3201 | polymer engineering | 46.0301 | power transmission systems installation |
| 15.0607 | polymer processing technology | 46.0303 | powerline electrician |
| 16.1401 | Polynesian languages | | |

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| 46.0303 | powerline technician (operating) | 51.1109 | pre-physical therapy |
| 46.0303 | powerline technician | 51.1111 | pre-physician assistant studies |
| 15.0807 | powersports engineering technician | 51.1111 | pre-physician assistant |
| 15.0807 | powersports engineering technology | 10.0303 | prepress |
| 39.0601 | practical theology | 13.1206 | preschool and primary teaching |
| 39.0502 | praise and worship music | 13.1209 | preschool education |
| 04.0200 | pre-architectural studies | 13.1209 | preschool teacher |
| 04.0200 | pre-architecture studies | 13.1209 | preschool teaching |
| 04.0200 | pre-architecture | 43.0203 | preservice firefighter |
| 51.1110 | pre-art therapy studies | 51.0299 | pre-speech language pathology and audiology |
| 51.1110 | pre-art therapy | 48.0508 | pressure welding |
| 51.1106 | pre-chiropractic studies | 21.0101 | pre-technology education |
| 51.1106 | pre-chiropractic | 39.0604 | pretheology studies |
| 48.0000 | precision production trades | 21.0101 | pre-trades |
| 48.0506 | precision sheet metal | 61.2301 | preventive medicine - residency |
| 51.1101 | pre-dentistry studies | 61.2301 | preventive medicine and public health - residency |
| 51.1101 | pre-dentistry | 01.1302 | pre-veterinary medicine |
| 14.0102 | pre-engineering transfer program | 01.1302 | pre-veterinary studies |
| 14.0102 | pre-engineering | 39.0602 | priest |
| 46.0411 | prefabricated metal building assembler | 39.0602 | priesthood |
| 46.0411 | prefabricated metal building assembly | 13.1206 | primary and intermediate education |
| 46.0411 | prefabricated metal structure assembler | 60.0713 | primary care nurse practitioner - fellowship |
| 46.0411 | prefabricated metal structure assembly | 60.0713 | primary care nurse practitioner - residency |
| 51.1199 | pre-health science studies | 60.0713 | primary care nurse practitioner |
| 51.1199 | pre-health science | 51.3805 | primary care nurse |
| 21.0101 | pre-industrial arts programs | 51.3805 | primary care nursing |
| 22.0001 | prelaw program | 13.1202 | primary education |
| 22.0001 | prelaw studies | 60.0713 | primary health care nurse practitioner - fellowship |
| 22.0001 | prelaw | 60.0713 | primary health care nurse practitioner - residency |
| 51.1102 | pre-med | 60.0713 | primary health care nurse practitioner |
| 51.1102 | pre-medical studies | 51.3805 | primary health care nurse |
| 51.1102 | pre-medicine | 51.3805 | primary health care nursing |
| 39.0604 | preministerial studies | 13.1202 | primary school teacher |
| 34.0102 | prenatal class (not for credit) | 45.0202 | primatology |
| 51.1105 | pre-nursing studies | 09.0401 | print journalism |
| 51.1105 | pre-nursing | 15.0306 | printed circuit board design |
| 51.1107 | pre-occupational therapy studies | 15.0306 | printed circuit drafting |
| 51.1107 | pre-occupational therapy | 10.0305 | printing and finishing |
| 51.1108 | pre-optometry studies | 10.0308 | printing compositor |
| 51.1108 | pre-optometry | 10.0302 | printing management technology |
| 51.1103 | pre-pharmacy studies | | |
| 51.1103 | pre-pharmacy | | |
| 51.1109 | pre-physical therapy studies | | |

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| 10.0302 | printing management | 49.0109 | professional remotely piloted aircraft systems |
| 10.0307 | printing press operator | 32.0204 | professional school entrance examination preparation (not for credit) |
| 10.0307 | printing pressman/presswoman | 52.0303 | program audit |
| 10.0305 | printing production | 11.0501 | programmer-analyst |
| 10.0305 | printing technology | 11.0202 | programming specific applications |
| 10.0305 | printing | 11.0201 | programming |
| 50.0710 | printmaking | 22.0202 | programs for foreign lawyers (graduate level) |
| 39.0602 | prison ministry | 52.0211 | project management |
| 36.0202 | private aeroplane pilot (not for credit) | 10.0299 | projectionist |
| 36.0202 | private aeroplane pilot licence (not for credit) | 52.1501 | property evaluation |
| 36.0202 | private airplane pilot (not for credit) | 22.0299 | property law (graduate level) |
| 36.0202 | private airplane pilot licence (not for credit) | 46.0401 | property maintenance |
| 36.0204 | private helicopter pilot (not for credit) | 52.1501 | property management |
| 36.0204 | private helicopter pilot licence (not for credit) | 15.0999 | prospecting |
| 43.9999 | private investigation | 51.0511 | prosthetic dentistry (Cert., MS, MSc, PhD) |
| 43.0109 | private policing and asset protection | 51.2307 | prosthetics |
| 27.0502 | probability and statistics | 51.2307 | prosthetist |
| 27.0502 | probability | 60.0108 | prosthodontics - residency |
| 15.0705 | process safety technician | 51.0511 | prosthodontics (Cert., MS, MSc, PhD) |
| 15.0705 | process safety technology | 60.0108 | prosthodontics specialty - residency |
| 52.0202 | procurement management | 51.0511 | prosthodontology (Cert., MS, MSc, PhD) |
| 52.0202 | procurement | 43.0199 | protection, security and investigation |
| 15.9999 | product design engineering technology | 43.0120 | protective security |
| 14.2701 | product development engineering | 43.0120 | protective services operations |
| 52.0205 | production management | 43.0120 | protective services |
| 52.0205 | production supervision | 26.0802 | protein expression |
| 32.0205 | professional certification examination preparation (not for credit) | 26.0802 | proteomics |
| 12.0505 | professional cooking assistant | 16.0999 | Provençal |
| 12.0500 | professional cooking | 51.2602 | PSW |
| 49.0304 | professional diver | 60.0738 | psychiatric nurse practitioner - fellowship |
| 49.0304 | professional diving | 60.0738 | psychiatric nurse practitioner - residency |
| 38.0104 | professional ethics | 60.0738 | psychiatric nurse practitioner |
| 52.0804 | professional financial planner | 51.3810 | psychiatric nurse |
| 31.0302 | professional golf management | 51.3810 | psychiatric nursing |
| 31.0501 | professional hockey | 60.0831 | psychiatric pharmacy - fellowship |
| 32.0205 | professional licensure examination preparation (not for credit) | 60.0831 | psychiatric pharmacy - residency |
| 49.0102 | professional pilot | 51.1502 | psychiatric services technician |
| 49.0109 | professional remotely piloted aircraft systems (RPAS) | 60.0738 | psychiatric/mental health nurse practitioner - fellowship |
| | | 60.0738 | psychiatric/mental health nurse practitioner - residency |

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| 61.2401 | psychiatry - residency | 51.2207 | public health education and promotion |
| 61.0124 | psychiatry and neurology - combined specialty | 51.2207 | public health education |
| 61.0124 | psychiatry/neurology - combined specialty | 51.2214 | public health genetics |
| 51.1507 | psychoanalysis and psychotherapy | 51.2299 | public health inspection |
| 51.1507 | psychoanalysis | 51.2299 | public health inspector |
| 42.2706 | psychobiology | 61.2301 | public health medicine - residency |
| 42.2812 | psychocriminology | 60.0739 | public health nurse practitioner - fellowship |
| 42.2701 | psycholinguistics | 60.0739 | public health nurse practitioner - residency |
| 42.2803 | psychological counselling | 51.3811 | public health nurse |
| 42.0101 | psychologist | 51.3811 | public health nursing |
| 42.2804 | psychology of work and organizations | 43.0302 | public health preparedness and emergency management |
| 42.2804 | psychology of work | 60.0739 | public health/community health nurse practitioner - fellowship |
| 13.1335 | psychology teacher education | 60.0739 | public health/community health nurse practitioner - residency |
| 13.1335 | psychology teacher | 54.0105 | public history |
| 13.1335 | psychology teaching | 01.0609 | public horticulture |
| 42.0101 | psychology | 44.0401 | public management |
| 42.2708 | psychometrics | 44.0501 | public policy analysis |
| 42.2708 | psychometry | 44.0501 | public policy |
| 42.2806 | psychopedagogy | 09.0900 | public relations and advertising |
| 42.2709 | psychopharmacology | 09.0902 | public relations and communication management |
| 51.1599 | psychosocial rehabilitation | 09.0902 | public relations management |
| 42.2707 | psychosociology | 09.0902 | public relations |
| 61.2404 | psychosomatic medicine - fellowship | 43.0399 | public safety communications |
| 51.1507 | psychotherapist | 43.0399 | public safety |
| 51.1507 | psychotherapy | 52.0808 | public sector financial management |
| 51.1513 | PTSD counselling | 44.0401 | public sector management |
| 44.0499 | public housing management | 44.0401 | public services administration |
| 52.0301 | public accounting | 44.0401 | public services management |
| 44.0401 | public administration and governance | 45.1102 | public sociology |
| 44.0401 | public administration | 52.0209 | public transportation administration |
| 52.0206 | public agency management | 52.0209 | public transportation facilities operation and management |
| 09.0900 | public communications | 52.0209 | public transportation management |
| 52.0206 | public enterprise management | 44.0403 | public transportation planning |
| 52.0808 | public finance | 44.0402 | public works administration |
| 51.2201 | public health (MPH, DPH) | 44.0402 | public works management |
| 51.2201 | public health (Master's degree) | 44.0402 | public works operations |
| 51.2201 | public health (PhD) | 09.1001 | publishing techniques and technologies |
| 51.2201 | public health administration | 09.1001 | publishing |
| 61.2301 | public health and general preventive medicine - residency | 05.0203 | Puerto Rican studies |
| 61.2301 | public health and preventive medicine - residency | | |

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| 60.0740 | pulmonary care nurse practitioner - fellowship | 55.1403 | Quebec literature (in French) |
| 60.0740 | pulmonary care nurse practitioner - residency | 05.0122 | Quebec studies |
| 61.0814 | pulmonary disease - fellowship | | |
| 60.0740 | pulmonary nurse practitioner - fellowship | R | |
| 60.0740 | pulmonary nurse practitioner - residency | 39.0605 | rabbi |
| 14.4001 | pulp and paper engineering | 39.0605 | rabbinical studies |
| 03.0509 | pulp and paper production | 05.0200 | race and ethnicity |
| 14.4001 | pulp and paper science | 05.0200 | race, ethnicity and indigeneity |
| 03.0509 | pulp and paper technology | 26.0209 | radiation biology |
| 03.0509 | pulp and papermaking operations | 61.2501 | radiation oncology - residency |
| 16.0705 | Punjabi language and literature | 51.0907 | radiation oncology technologist |
| 16.0705 | Punjabi language | 51.0907 | radiation oncology technology |
| 16.0705 | Punjabi literature | 51.0916 | radiation protection technician |
| 16.0705 | Punjabi | 51.0916 | radiation protection/health physics technician |
| 52.0202 | purchasing administration | 51.0907 | radiation therapist |
| 52.0202 | purchasing management | 51.0907 | radiation therapy |
| 52.0202 | purchasing | 09.0701 | radio and television |
| 40.0101 | pure and applied sciences | 47.0101 | radio and TV repair |
| 27.0101 | pure mathematics | 40.0201 | radio astronomy |
| | | 10.0202 | radio broadcast technology |
| Q | | 10.0202 | radio broadcasting technician |
| | | 09.0402 | radio journalism |
| 01.0680 | quality assurance of cannabis products | 09.0701 | radio, television, and film |
| 15.0702 | quality assurance technician | 26.0209 | radiobiology |
| 15.0702 | quality assurance | 51.0911 | radiographer |
| 15.0702 | quality control technician | 61.1815 | radioisotopic pathology - fellowship |
| 15.0702 | quality control technologist | 61.2610 | radiologic physics - residency |
| 15.0702 | quality control technology | 51.0999 | radiologic science |
| 15.0702 | quality inspector training | 51.0911 | radiologic technologist |
| 15.0702 | quality technician | 51.0911 | radiologic technology |
| 27.0305 | quantitative and computational finance | 51.0911 | radiological technologist |
| 30.3901 | quantitative economics and computer science | 51.0814 | radiologist assistant |
| 45.0603 | quantitative economics | 51.0911 | radiology technologist |
| 27.0305 | quantitative finance | 51.0907 | radiotherapist |
| 42.2708 | quantitative psychology | 51.0907 | radiotherapy |
| 52.2001 | quantity surveying | 49.0208 | rail traffic controller |
| 30.9999 | quantum information processing | 49.0208 | rail yardmaster |
| 40.0810 | quantum mechanics | 49.0208 | railroad and railway transportation |
| 40.0810 | quantum physics | 49.0208 | railroad conductor |
| 40.0604 | quaternary geology | 47.0699 | railway car service and repair |
| | | 49.0208 | railway conductor |

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| 49.0208 | railway dispatcher | 31.0301 | recreation facilities development |
| 49.0208 | railway operations | 31.0301 | recreation facilities management |
| 16.0799 | Rajasthani | 31.0101 | recreation leadership |
| 01.0104 | ranch management | 31.0504 | recreation management |
| 01.1106 | range and pasture management | 31.0101 | recreation studies |
| 01.1106 | range management | 31.0101 | recreation technology |
| 01.1106 | range science | 47.0618 | recreation vehicle (RV) mechanic |
| 43.0107 | RCMP | 47.0618 | recreation vehicle (RV) service technician |
| 36.0116 | reading (not for credit) | 47.0618 | recreation vehicle (RV) technician |
| 13.1315 | reading education | 47.0618 | recreation vehicle mechanic |
| 13.1315 | reading teacher education | 47.0618 | recreation vehicle service technician |
| 13.1315 | reading teacher | 36.0202 | recreational aeroplane pilot permit (not for credit) |
| 52.1501 | real estate agent | 51.2309 | recreational therapy |
| 22.0222 | real estate and land development law (graduate level) | 47.0618 | recreational vehicle service technician |
| 22.0222 | real estate and property law (graduate level) | 47.0618 | recreational vehicle technician |
| 52.1501 | real estate appraisal | 31.0101 | recreology |
| 52.1501 | real estate broker | 51.3501 | reflexology |
| 52.1501 | real estate brokerage | 47.0201 | refrigeration and air conditioning mechanic |
| 04.1001 | real estate development | 47.0201 | refrigeration and air conditioning systems mechanic |
| 22.0222 | real estate law (graduate level) | 15.0501 | refrigeration engineering technology |
| 52.1501 | real estate sales | 47.0201 | refrigeration mechanic |
| 52.1501 | real estate | 47.0201 | refrigeration technician |
| 52.1501 | real property assessment | 15.0501 | refrigeration technologist |
| 04.1001 | real property development | 53.0104 | regents high school diploma |
| 52.1501 | realtor | 53.0104 | regents secondary school diploma |
| 61.2201 | rearfoot and ankle surgery - residency | 04.0301 | regional and urban development |
| 52.0406 | receptionist | 44.0401 | regional public administration |
| 10.0203 | recording arts technician | 05.0122 | regional studies |
| 10.0203 | recording arts technology | 51.0601 | registered dental assistant (RDA) |
| 15.0307 | recording engineering | 51.0602 | registered dental hygienist (RDH) |
| 25.0103 | records and information management | 51.3103 | registered dietetic technician |
| 25.0103 | records management | 51.3101 | registered dietitian (RD) |
| 31.0504 | recreation administration | 51.3501 | registered massage therapist (RMT) |
| 31.0504 | recreation and leisure management | 51.3812 | registered nurse first assistant (RNFA) |
| 31.0101 | recreation and leisure | 51.3812 | registered nurse first assistant |
| 31.0504 | recreation and sport management | 51.3801 | registered nurse |
| 31.0504 | recreation and sports administration | 51.3901 | registered nursing assistant |
| 31.0301 | recreation club management | 51.3801 | registered nursing |
| 51.2309 | recreation facilitator for older adults | 51.2317 | registered play therapist (RPT) |
| 51.2309 | recreation facilitator for special needs | 51.3901 | registered practical nurse |
| 31.0101 | recreation facilitator | 51.3823 | registered psychiatric nurse |

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| 51.3823 | registered psychiatric nursing | 36.0207 | remotely piloted aircraft systems (RPAS) (not for credit) |
| 53.0101 | regular high school diploma | 49.0109 | remotely piloted aircraft systems (RPAS) |
| 28.0801 | Regular Officer Training Plan | 30.1301 | renaissance studies |
| 53.0101 | regular secondary school diploma | 51.1011 | renal technician |
| 51.0720 | regulatory affairs | 51.1011 | renal technologist |
| 22.0205 | regulatory law (graduate level) | 14.4801 | renewable energy engineering |
| 51.0720 | regulatory science | 15.1799 | renewable energy technician |
| 51.0817 | rehab assistant | 15.1799 | renewable energy technology |
| 51.2604 | rehabilitation aide | 03.0201 | renewable resource management |
| 51.0817 | rehabilitation assistant (RA) | 03.0199 | renewable resources technology |
| 51.2310 | rehabilitation counselling | 03.0199 | renewable resources |
| 51.2312 | rehabilitation engineering | 26.0905 | reproductive biology |
| 51.2314 | rehabilitation science | 61.1304 | reproductive endocrinology - fellowship |
| 51.0817 | rehabilitation therapist assistant | 61.0125 | reproductive endocrinology and infertility, and medical genetics and genomics - combined specialty |
| 51.2300 | rehabilitation therapist | 61.0125 | reproductive endocrinology and infertility/medical genetics and genomics - combined specialty |
| 51.0817 | rehabilitation therapy assistant | 61.1304 | reproductive endocrinology/infertility - fellowship |
| 51.2300 | rehabilitation therapy | 61.1304 | reproductive infertility - fellowship |
| 51.3704 | Reiki | 26.0905 | reproductive physiology |
| 48.0509 | reinforcing rodworker | 52.0214 | research administration |
| 48.0509 | reinforcing steel erector | 52.0210 | research and development management |
| 38.0299 | religion and culture | 45.0102 | research methodology and quantitative methods |
| 38.0001 | religion, culture and ethics | 28.0801 | Reserve Entry Scheme Officer |
| 38.0201 | religion | 28.0801 | Reserve Entry Training Plan |
| 39.0401 | religious education (except Bachelor of Education) | 51.2602 | resident care aide |
| 13.1399 | religious education teacher (Bachelor of Education) | 51.2602 | resident care attendant |
| 38.0103 | religious ethics | 46.0401 | residential building maintenance worker |
| 39.0801 | religious institution administration and management | 46.0415 | residential construction technician |
| 39.0801 | religious institution administration | 46.0415 | residential construction technology |
| 39.0801 | religious institution management | 46.0415 | residential construction |
| 39.0802 | religious law (christian) | 51.1599 | residential counselling |
| 39.0501 | religious music | 19.0605 | residential decorator |
| 38.0201 | religious studies | 15.1303 | residential drafting and design |
| 39.9999 | religious texts and commentaries | 28.0801 | RESO |
| 13.1001 | remedial instruction | 52.0906 | resort management |
| 36.0207 | remote aircraft pilot (not for credit) | 03.0207 | resource recreation and tourism |
| 49.0109 | remote aircraft pilot | 51.0908 | respiratory care therapist |
| 36.0207 | remote pilot certificate (not for credit) | 51.0908 | respiratory care therapy |
| 49.0109 | remote pilot certificate | | |
| 45.0702 | remote sensing | | |
| 49.0109 | remotely piloted aerial systems commercial operations | | |

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| 60.0740 | respiratory health nurse practitioner - residency | 15.0405 | robotics engineering technology |
| 51.3899 | respiratory health nurse | 14.4201 | robotics engineering |
| 60.0740 | respiratory nurse practitioner - residency | 11.0102 | robotics programming |
| 51.3899 | respiratory nurse | 15.0405 | robotics technician |
| 51.0908 | respiratory technologist | 15.0405 | robotics technology |
| 51.0908 | respiratory technology | 31.0601 | rock climbing instructor |
| 51.0812 | respiratory therapist assistant | 14.0201 | rocket propulsion |
| 51.0908 | respiratory therapist | 38.0208 | Roman Catholic studies |
| 51.0812 | respiratory therapy assistant | 16.0900 | Romance language and literature |
| 51.0812 | respiratory therapy technician | 16.0900 | Romance languages, literature and linguistics |
| 51.0908 | respiratory therapy | 16.0900 | Romance languages |
| 12.0504 | restaurant culinary management | 16.0900 | Romance linguistics |
| 52.0905 | restaurant management | 16.0900 | Romance literature |
| 52.0905 | restaurant manager | 16.0906 | Romanian language and literature |
| 46.0101 | restoration stone mason | 16.0906 | Romanian language |
| 12.0506 | retail butchery | 16.0906 | Romanian literature |
| 52.1802 | retail buyer | 16.0906 | Romanian |
| 52.1880 | retail cannabis sales | 16.0799 | Romany |
| 52.1803 | retail clerk | 46.0410 | roofer |
| 01.0608 | retail floristry | 46.0410 | roofing |
| 52.0212 | retail management | 46.9999 | rope access technician |
| 52.1880 | retail marijuana sales | 31.0601 | ropes courses facilitator |
| 52.1801 | retail marketing | 10.0307 | rotary offset press operator |
| 12.0506 | retail meat cutting | 28.0801 | ROTP |
| 52.1802 | retail merchandising | 12.0602 | roulette croupier |
| 52.1803 | retail operations | 12.0602 | roulette dealer |
| 52.1801 | retail sales and marketing | 43.0107 | Royal Canadian Mounted Police |
| 52.1803 | retail sales | 36.0207 | RPAS pilot certificate (not for credit) |
| 52.1803 | retailing | 49.0109 | RPAS pilot certificate |
| 37.0106 | retirement planning (not for credit) | 51.3901 | RPN |
| 28.0801 | RETP | 46.0413 | rug layer |
| 16.0999 | Rhaeto-Romansch | 45.1103 | rural development studies |
| 61.0816 | rheumatology - fellowship | 01.0103 | rural economics |
| 60.0741 | rheumatology nurse practitioner - fellowship | 01.0103 | rural economy |
| 60.0741 | rheumatology nurse practitioner - residency | 01.0801 | rural extension studies |
| 01.0507 | riding instruction | 01.0801 | rural extension |
| 52.0299 | risk management | 60.0742 | rural health nurse practitioner - fellowship |
| 51.3812 | RN first assistant | 60.0742 | rural health nurse practitioner - residency |
| 15.0407 | robotics and automation technology | 45.1103 | rural sociology |
| 15.0405 | robotics engineering technician | 05.0105 | Russian and East European studies |
| | | 05.0105 | Russian and Eurasian studies |
| | | 30.4501 | Russian history and language |

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| 54.0103 | Russian history | 50.0915 | saxophone |
| 16.0402 | Russian language and literature | 16.0502 | Scandinavian languages and literature |
| 16.0402 | Russian language | 16.0502 | Scandinavian languages, literature and linguistics |
| 16.0402 | Russian literature | 16.0502 | Scandinavian languages |
| 16.0402 | Russian philology | 16.0502 | Scandinavian linguistics |
| 05.0110 | Russian studies | 16.0502 | Scandinavian literature |
| 16.0402 | Russian | 05.0111 | Scandinavian studies |
| 47.0618 | RV mechanic | 16.0502 | Scandinavian |
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| 16.1103 | Sabaeen | 50.0502 | scene painting |
| 39.0501 | sacred music ministry | 50.0502 | scenery and lighting |
| 39.0501 | sacred music | 50.0502 | scenography |
| 39.9999 | sacred scripture studies | 13.0401 | school administration and policies |
| 39.0601 | sacred theology | 13.0401 | school administration |
| 13.1310 | sales and marketing operations teacher education | 51.2317 | school based registered play therapist (SB-RPT) |
| 52.1801 | sales and marketing | 49.0205 | school bus driver |
| 52.1804 | sales clerk | 13.1101 | school counsellor |
| 52.1804 | sales management | 13.0401 | school leadership |
| 52.1907 | sales of vehicle parts and accessories | 13.1334 | school librarian |
| 52.1804 | sales representative | 13.1334 | school library media specialist |
| 52.1804 | sales techniques | 13.0401 | school management |
| 52.1801 | sales, distribution and marketing operations | 42.2805 | school psychology |
| 52.1804 | salesperson | 13.0411 | school superintendency |
| 01.0303 | salmon farm technician | 13.0411 | school superintendent |
| 16.1103 | Samaritan | 13.0101 | school teacher |
| 16.1502 | Sami | 52.0216 | science and technology management |
| 16.1299 | Samnian | 13.1316 | science education |
| 16.1401 | Samoan | 54.0104 | science history |
| 14.9999 | sanitary engineering (university) | 41.0000 | science lab technician |
| 16.0702 | Sanskrit language and literature | 41.0000 | science lab technology |
| 16.0702 | Sanskrit language | 41.0000 | science laboratory technician |
| 16.0702 | Sanskrit linguistics | 41.0000 | science laboratory technology |
| 16.0702 | Sanskrit literature | 52.0216 | science management |
| 16.0702 | Sanskrit | 13.1316 | science teacher education |
| 43.0399 | SAR tech | 13.1316 | science teacher |
| 16.0999 | Sardinian | 13.1316 | science teaching |
| 16.1001 | Saulteaux language studies | 41.0000 | science technician |
| 48.0507 | saw filing | 41.0000 | science technology |
| 03.0509 | sawing | 09.0407 | science, health and environmental journalism |
| | | 09.0407 | science, health and environmental reporting |
| | | 30.1501 | science, technology and society |

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| 13.1213 | science, technology, engineering, and mathematics (STEM) educational methods | 53.0201 | secondary school GED test |
| 13.1213 | science, technology, engineering, and mathematics educational methods | 53.0203 | secondary school IEP certificate |
| 22.0201 | Scientiae Juridicae Doctor (JSD/SJD) | 53.0203 | secondary school individual educational program certificate |
| 52.1999 | scientific and medical marketing | 53.0103 | secondary school industrial diploma |
| 01.0310 | scientific beekeeping | 53.0103 | secondary school occupational diploma |
| 09.0908 | scientific communication | 13.0409 | secondary school principal |
| 30.3001 | scientific computing | 13.1205 | secondary school teacher training |
| 09.0407 | scientific journalism | 13.1205 | secondary school teacher |
| 22.0305 | scopist | 13.1205 | secondary teaching |
| 16.1301 | Scots Gaelic | 52.0401 | secretarial arts |
| 16.0599 | Scots | 52.0401 | secretarial science |
| 23.1404 | Scottish English literature | 52.0401 | secretarial studies |
| 16.1301 | Scottish Gaelic | 52.0401 | secretary |
| 10.0204 | screen captioning | 52.0401 | secretary-receptionist |
| 50.0504 | screenwriting | 22.0205 | securities law (graduate level) |
| 50.0504 | script writing | 52.0807 | securities |
| 49.0304 | scuba diving instructor | 43.0112 | security administration |
| 49.0304 | scuba diving | 47.0110 | security alarm installation |
| 50.0709 | sculpture | 47.0110 | security alarm service technician |
| 49.0309 | sea captain | 47.0110 | security alarm technician |
| 52.0209 | sea mobility | 47.0110 | security and alarm systems technician |
| 36.0206 | Sea-Doo operator (not for credit) | 28.0801 | security and defence management and policy |
| 01.0401 | seafood processing | 43.0109 | security and loss prevention services |
| 19.0999 | seamstress | 43.0109 | security guard |
| 49.0102 | seaplane flying | 43.0112 | security management |
| 43.0399 | search and rescue technician | 43.0109 | security officer |
| 43.0399 | search and rescue | 43.0401 | security science and technology |
| 15.0806 | second class marine engineer | 43.0112 | security services administration |
| 32.0109 | second language learning (not for credit) | 43.0112 | security services management |
| 16.1799 | second language learning | 43.0109 | security services |
| 13.1499 | second language teaching | 47.0110 | security system inspection |
| 13.1205 | secondary education | 47.0110 | security system installation and maintenance |
| 13.1311 | secondary mathematics education | 47.0110 | security system installation |
| 13.1311 | secondary mathematics teacher education | 47.0110 | security system repair |
| 13.0409 | secondary school administration | 47.0110 | security system technician |
| 53.0103 | secondary school business diploma | 43.0401 | security technology and science |
| 53.0101 | secondary school diploma | 43.0109 | security |
| 13.1205 | secondary school education | 40.0603 | seismology |
| 32.0202 | secondary school equivalency exam preparation (not for credit) | 37.0107 | self defence (not for credit) |
| 53.0201 | secondary school equivalency | 37.0107 | self defence for women (not for credit) |

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| 37.0107 | self defense (not for credit) | 48.0506 | sheet metal worker |
| 37.0107 | self defense for women (not for credit) | 48.0506 | sheet metal |
| 37.0101 | self-awareness and personal assessment (not for credit) | 22.0399 | sheriff |
| 37.0107 | self-defence (not for credit) | 51.3502 | shiatsu |
| 37.0107 | self-defence for women (not for credit) | 49.0309 | ship captain |
| 37.0107 | self-defense (not for credit) | 49.0309 | ship pilot |
| 37.0107 | self-defense for women (not for credit) | 47.0616 | ship repair |
| 37.0104 | self-esteem and values clarification (not for credit) | 14.2201 | shipbuilding engineering |
| 52.1880 | Selling It Right training program | 49.0309 | shipmaster |
| 52.1804 | selling skills and sales operations | 48.0704 | shipwright |
| 15.0616 | semiconductor manufacturing technology | 48.0304 | shoe making |
| 14.1201 | semiconductor physics | 48.0304 | shoe repair |
| 39.0604 | seminary | 12.0500 | short order cooking |
| 16.0102 | semiology | 52.0408 | shorthand typing |
| 16.0102 | semiotics | 16.1603 | sign language communicator |
| 16.1100 | Semitic languages and literature | 16.1603 | sign language interpretation |
| 16.1100 | Semitic languages | 16.1602 | sign language linguistics |
| 16.1100 | Semitic linguistics | 16.1603 | sign language translation |
| 16.1100 | Semitic literature | 16.1601 | sign language |
| 13.1205 | senior high school education | 50.0402 | sign painting |
| 13.1205 | senior high school teacher | 50.0710 | silk screen printing |
| 13.1205 | senior secondary school education | 50.0714 | silversmithing |
| 16.0408 | Serbian language and literature | 03.0506 | silviculture |
| 16.0408 | Serbian language | 16.0799 | Sindhi |
| 16.0408 | Serbian literature | 50.0908 | singing |
| 16.0408 | Serbian | 16.0799 | Sinhalese |
| 16.0408 | Serbo-Croatian | 15.0508 | site assessment, decontamination and restoration |
| 50.0710 | serigraphy | 52.0906 | ski resort management |
| 12.0502 | serving it right | 52.0906 | ski resort operations and management |
| 50.0502 | set design | 03.0511 | skidder operator |
| 50.0502 | set dresser | 31.0501 | skiing coach |
| 19.0999 | sewing | 12.0409 | skin and beauty care |
| 47.9999 | sewing-machine mechanic | 12.0409 | skin care |
| 51.1599 | sexology | 05.0199 | Slavic and East European studies |
| 51.3824 | sexual assault nurse examiner | 16.0400 | Slavic languages and literature |
| 16.1499 | Shan | 16.0400 | Slavic languages |
| 48.0507 | sharpening | 16.0400 | Slavic linguistics |
| 48.0506 | sheet metal fabrication | 16.0400 | Slavic literature |
| 48.0506 | sheet metal technician | 16.0400 | Slavic philology |
| 48.0506 | sheet metal technology | 05.0118 | Slavic studies |
| 48.0506 | sheet metal work | 61.0212 | sleep medicine - fellowship |

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| 60.0743 | sleep medicine nurse practitioner - fellowship | 36.0207 | small unmanned aircraft system (small UAS) pilot (not for credit) |
| 60.0743 | sleep medicine nurse practitioner - residency | 49.0109 | small unmanned aircraft system (small UAS) pilot |
| 51.0917 | sleep technology | 36.0207 | small unmanned aircraft system (sUAS) pilot (not for credit) |
| 16.0409 | Slovak language and literature | 49.0109 | small unmanned aircraft system (sUAS) pilot |
| 16.0409 | Slovak language | 01.8104 | small/companion animal surgery and medicine (Cert., MS, MSc, PhD) |
| 16.0409 | Slovak literature | 12.0502 | smart serve |
| 16.0409 | Slovak | 50.0916 | snare drum |
| 16.0499 | Slovenian | 47.0606 | snowmobile mechanics |
| 52.0703 | small and medium enterprise management | 31.0501 | soccer |
| 01.8104 | small animal surgery and medicine | 45.9999 | social and political thought |
| 52.0703 | small business administration | 50.1101 | social art practice |
| 52.0703 | small business management and ownership | 09.0199 | social communication |
| 52.0703 | small business management | 45.0501 | social demography |
| 47.0606 | small engine and equipment mechanic | 45.0699 | social economics |
| 47.0606 | small engine mechanic | 52.0704 | social entrepreneurship |
| 47.0606 | small engine mechanics | 38.0104 | social ethics |
| 47.0606 | small engine repair | 45.0701 | social geography |
| 47.0606 | small engine technician | 44.0499 | social housing management |
| 47.0606 | small gas engine repair | 11.0104 | social informatics |
| 47.0606 | small motor mechanic | 45.9999 | social justice |
| 36.0207 | small remotely piloted aircraft (sRPA) (not for credit) | 09.0902 | social media management |
| 49.0109 | small remotely piloted aircraft (sRPA) | 50.1101 | social practice art |
| 36.0207 | small remotely piloted aircraft systems (sRPAS) (not for credit) | 42.2707 | social psychology |
| 49.0109 | small remotely piloted aircraft systems (sRPAS) | 45.0102 | social research methods |
| 36.0207 | small UAS pilot (not for credit) | 13.1317 | social science teacher education |
| 49.0109 | small UAS pilot | 13.1317 | social science teacher |
| 36.0207 | small UAV pilot (not for credit) | 13.1317 | social sciences education |
| 49.0109 | small UAV pilot | 13.1317 | social sciences teacher training |
| 36.0207 | small unmanned aerial system pilot (not for credit) | 45.0101 | social sciences |
| 49.0109 | small unmanned aerial system pilot | 44.0000 | social services worker |
| 36.0207 | small unmanned aerial vehicle (small UAV) pilot (not for credit) | 44.0000 | social services |
| 49.0109 | small unmanned aerial vehicle (small UAV) pilot | 13.1318 | social studies education |
| 36.0207 | small unmanned aerial vehicle (sUAV) pilot (not for credit) | 30.1501 | social studies of science |
| 49.0109 | small unmanned aerial vehicle (sUAV) pilot | 13.1318 | social studies teacher education |
| 36.0207 | small unmanned aerial vehicle (sUAV) pilot (not for credit) | 13.1318 | social studies teacher |
| 49.0109 | small unmanned aerial vehicle (sUAV) pilot | 13.1318 | social studies teaching |
| | | 45.0101 | social studies |
| | | 44.0701 | social work |
| | | 50.1101 | socially-engaged art |

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| 50.1101 | socially-engaged studio art | 47.0703 | solar panel installation |
| 45.0204 | socio-cultural anthropology | 46.0301 | solar photovoltaic systems technician |
| 45.1301 | sociology and anthropology | 46.0301 | solar photovoltaic technician |
| 13.1317 | sociology education | 22.0101 | solicitor |
| 13.0901 | sociology in education | 40.0808 | solid-state physics |
| 45.1199 | sociology of health and aging | 51.3503 | somatic bodywork |
| 13.1317 | sociology teaching | 42.2816 | somatic psychology |
| 45.1101 | sociology | 12.0510 | sommelier |
| 11.0201 | software design | 51.0910 | sonography |
| 11.0201 | software development | 16.0499 | Sorbian languages |
| 14.0903 | software engineering | 50.0917 | sound art |
| 11.0204 | software game programming | 50.0917 | sound arts |
| 14.0903 | software systems development | 15.0307 | sound engineering technician |
| 01.1202 | soil chemistry | 15.0307 | sound engineering technology |
| 01.1299 | soil conservation | 15.0307 | sound engineering |
| 14.0301 | soil engineering | 46.0414 | sound insulator |
| 01.1203 | soil microbiology | 10.0203 | sound recording |
| 01.1202 | soil physics | 10.0203 | sound technician |
| 01.1201 | soil science and agronomy | 10.0203 | sound technology |
| 01.1201 | soil science | 12.0503 | sous chef |
| 01.1299 | soil technology | 16.1001 | South American aboriginal languages |
| 15.1703 | solar energy engineering technician | 16.0700 | South Asian languages and literature |
| 15.1703 | solar energy engineering technology | 16.0700 | South Asian languages |
| 47.0703 | solar energy installation and repair technician | 16.0700 | South Asian linguistics |
| 47.0703 | solar energy installation and repair technology | 16.0700 | South Asian literature |
| 47.0703 | solar energy system installation and repair technician | 05.0112 | South Asian studies |
| 47.0703 | solar energy system installation and repair technology | 16.1400 | Southeast Asian languages and literature |
| 47.0703 | solar energy system installation technician | 16.1400 | Southeast Asian languages |
| 47.0703 | solar energy system installation technology | 16.1400 | Southeast Asian linguistics |
| 47.0703 | solar energy system installation | 16.1400 | Southeast Asian literature |
| 47.0703 | solar energy system maintenance technician | 05.0113 | Southeast Asian studies |
| 47.0703 | solar energy system maintenance technology | 05.0105 | Soviet and East European studies |
| 47.0703 | solar energy system maintenance | 05.0110 | Soviet studies |
| 47.0703 | solar energy system repair technician | 52.0906 | spa management |
| 47.0703 | solar energy system repair technology | 51.3501 | spa practitioner |
| 47.0703 | solar energy system repair | 22.0299 | space and telecommunications law (graduate level) |
| 15.1703 | solar energy technician | 14.0202 | space engineering |
| 15.1703 | solar energy technology | 14.0201 | space facilities engineering |
| | | 22.0299 | space law (graduate level) |
| | | 14.0201 | space systems engineering |
| | | 22.0223 | space transportation law (graduate level) |
| | | 16.1799 | Spanish as a second language |

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| 13.1330 | Spanish education | 36.0108 | sports and exercise (not for credit) |
| 16.0905 | Spanish language and literature | 31.0504 | sports and fitness management |
| 13.1330 | Spanish language teacher education | 31.0301 | sports centre management |
| 16.0905 | Spanish language | 09.0906 | sports communication |
| 30.4001 | Spanish literature and economics | 47.0499 | sports equipment fabrication and repair technician |
| 16.0905 | Spanish literature | 31.0599 | sports equipment specialist |
| 05.0130 | Spanish studies | 51.0913 | sports injury therapist |
| 13.1330 | Spanish teacher | 09.0906 | sports journalism |
| 16.0905 | Spanish | 22.0215 | sports law (graduate level) |
| 51.2602 | special care aide | 31.0504 | sports management |
| 13.1501 | special education assistant | 52.1910 | sports marketing |
| 13.1501 | special education teacher assistant/aide | 61.0213 | sports medicine - fellowship |
| 13.1001 | special education teaching | 42.2815 | sports psychology |
| 13.1001 | special education | 09.0906 | sports reporting |
| 10.0304 | special effects | 31.0508 | sports studies |
| 52.0907 | special event management | 46.0502 | sprinkler and fire protection installer |
| 13.1001 | special needs education | 46.0502 | sprinkler fitter |
| 13.1501 | special needs teacher assistant | 46.0502 | sprinkler installation |
| 52.1909 | special products marketing operations | 46.0502 | sprinkler systems installer |
| 40.9999 | spectroscopy | 36.0207 | sRPA pilot certificate (not for credit) |
| 09.0101 | speech communication and rhetoric | 49.0109 | sRPA pilot certificate |
| 09.0101 | speech communication | 36.0207 | sRPAS pilot certificate (not for credit) |
| 51.0203 | speech language pathologist | 49.0109 | sRPAS pilot certificate |
| 51.0203 | speech pathologist | 50.0506 | stage acting |
| 51.0204 | speech pathology and audiology | 50.0507 | stage direction |
| 51.0203 | speech pathology | 50.0502 | stagecraft |
| 13.1331 | speech teacher education | 47.0605 | stationary diesel mechanics |
| 13.1331 | speech teacher | 47.0701 | stationary energy sources installer and operator |
| 51.0204 | speech therapy and audiology | 15.1702 | stationary engineer |
| 51.0203 | speech therapy | 15.1702 | stationary engineering |
| 51.0816 | speech-language pathology assistant | 15.1702 | stationary power plant engineering |
| 51.0203 | speech-language pathology | 27.0501 | statistics |
| 51.0816 | speech-language therapy assistant | 15.1702 | steam engineering |
| 61.2002 | spinal cord injury medicine - fellowship | 15.1702 | steam power plant stationary engineer |
| 39.9999 | spiritual formation | 46.0502 | steamfitter |
| 42.2817 | spiritual psychology | 46.0502 | steamfitter-pipefitter |
| 39.9999 | spirituality | 46.0502 | steamfitting |
| 52.1910 | sport and event marketing | 48.0511 | steel fabricator (fitter) |
| 31.0501 | sport and exercise studies | 48.0511 | steel fabricator |
| 31.0504 | sport and fitness administration | 48.0511 | steel frame assembler |
| 31.0501 | sport coach | 15.1304 | steel structure drafting |
| 42.2815 | sport psychology | | |
| 31.0504 | sports administration | | |

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| 13.1208 | steiner teacher education | 15.0901 | surface mining |
| 13.1213 | STEM educational methods | 61.0214 | surgery of the hand - fellowship |
| 52.0408 | stenographer-typist | 60.0744 | surgical and critical care nurse practitioner - fellowship |
| 51.1012 | sterile processing and distribution | 60.0744 | surgical and critical care nurse practitioner - residency |
| 51.1012 | sterile processing technician | 61.2706 | surgical critical care - fellowship |
| 51.1012 | sterile processing technology | 51.3812 | surgical nurse |
| 51.1012 | sterile processing | 51.3812 | surgical nursing |
| 51.1012 | sterile supply technician | 51.0909 | surgical technician |
| 51.1012 | sterile technician | 51.0909 | surgical technologist |
| 51.1012 | sterilization technician | 51.0909 | surgical technology |
| 52.0807 | stock broker | 60.0745 | surgical wound and reconstruction nurse practitioner - fellowship |
| 52.0807 | stockbroker | 60.0745 | surgical wound and reconstruction nurse practitioner - residency |
| 46.0101 | stone masonry | 14.3801 | survey engineering |
| 09.0909 | strategic communications | 45.0103 | survey methodology |
| 52.0201 | strategic management | 45.0103 | survey research and survey methodology |
| 37.0102 | stress management and coping skills (not for credit) | 45.0103 | survey research |
| 50.0911 | stringed instruments | 15.1102 | survey technician |
| 26.0207 | structural biology | 15.1102 | survey technologist |
| 15.1304 | structural CAD technology | 15.1102 | survey technology |
| 15.1304 | structural drafting | 14.3801 | surveying engineering |
| 15.0201 | structural engineering technology | 15.1102 | surveying technology |
| 14.0803 | structural engineering | 15.1102 | surveying |
| 48.0511 | structural steel and plate fitter | 15.1102 | surveyor |
| 48.0509 | structural steel erector | 43.0121 | suspension and debarment investigation |
| 15.0201 | structural technology | 30.3301 | sustainability studies |
| 05.0109 | studies of Oceania | 01.0308 | sustainable agriculture |
| 50.1002 | studio arts management | 01.0303 | sustainable aquaculture |
| 50.0702 | studio arts | 04.0403 | sustainable architectural design |
| 36.0207 | sUAS pilot (not for credit) | 04.0403 | sustainable architecture |
| 49.0109 | sUAS pilot | 01.1003 | sustainable brewing |
| 36.0207 | sUAV pilot (not for credit) | 04.0403 | sustainable building design |
| 49.0109 | sUAV pilot | 04.0403 | sustainable design |
| 51.1501 | substance abuse counselling | 30.3301 | sustainable development |
| 51.1508 | suicide prevention | 14.4801 | sustainable energy engineering |
| 16.1103 | Sumerian | 15.1799 | sustainable energy technician |
| 11.0203 | Sun certified Java programmer | 15.1799 | sustainable energy technology |
| 16.1499 | Sundan | 30.3301 | sustainable living |
| 52.0203 | supply chain management | 03.0506 | sustainable management of forest resources |
| 52.0202 | supply management | 03.0207 | sustainable outdoor recreation |
| 40.0808 | supra-conductivity physics | | |
| 46.0505 | surface blaster | | |
| 49.0202 | surface mining equipment operator | | |

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| 01.0610 | sustainable urban horticulture | 12.0411 | tattooing |
| 50.0912 | Suzuki method | 22.0101 | tax law (except graduate level) |
| 50.0912 | Suzuki piano pedagogy | 22.0211 | tax law (graduate level) |
| 16.0506 | Swedish language and literature | 52.1601 | tax planning |
| 16.0506 | Swedish language | 52.1601 | taxation |
| 16.0506 | Swedish literature | 49.0205 | taxi driver |
| 16.0506 | Swedish | 01.0508 | taxidermist |
| 31.0501 | swimming | 01.0508 | taxidermy |
| 01.0302 | swine production | 36.0202 | TCCA private pilot licence - aeroplane (not for credit) |
| 01.0302 | swine technician | 36.0204 | TCCA private pilot licence - helicopter (not for credit) |
| 01.0302 | swine technology | 13.1501 | teacher aide |
| 52.0406 | switchboard operator | 13.0101 | teacher development |
| 03.0506 | silviculture | 13.1206 | teacher education for multiple school levels |
| 16.1103 | Syriac | 13.0101 | teacher education |
| 26.1308 | systematic biology | 13.1334 | teacher librarian |
| 11.1001 | systems administration | 13.1206 | teacher of multiple school levels |
| 11.1001 | systems administrator | 13.1003 | teacher of the deaf |
| 14.2701 | systems design engineering | 13.0101 | teacher training |
| 14.2701 | systems engineering | 13.0101 | teacher |
| 26.1501 | systems neuroscience | 13.1303 | teaching accounting |
| 30.0601 | systems science and theory | 13.1303 | teaching administration |
| 30.0601 | systems science | 13.1302 | teaching art |
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| 16.1404 | Tagalog language and literature | 13.1501 | teaching assistant |
| 16.1404 | Tagalog language | 13.1320 | teaching cooking |
| 16.1404 | Tagalog literature | 13.1015 | teaching early childhood special education programs |
| 16.1404 | Tagalog | 13.1202 | teaching elementary school |
| 16.1401 | Tahitian | 13.1401 | teaching English as a second language |
| 19.0999 | tailor | 13.1401 | teaching English to Speakers of Other Languages |
| 19.0999 | tailoring | 13.1305 | teaching English |
| 38.0207 | Talmud | 13.1401 | teaching ESL |
| 38.0207 | Talmudic law | 13.1306 | teaching foreign languages |
| 38.0207 | Talmudic studies | 13.1402 | teaching French as a second language |
| 16.0706 | Tamil language and literature | 13.1325 | teaching French |
| 16.0706 | Tamil language | 13.1332 | teaching geography |
| 16.0706 | Tamil literature | 13.1326 | teaching German |
| 16.0706 | Tamil | 13.1004 | teaching gifted and talented individuals |
| 38.0299 | Taoism | 13.1003 | teaching hearing-impaired individuals |
| 38.0299 | Taoist philosophy | 13.1328 | teaching history |
| 16.1401 | Tasmanian aboriginal languages | 13.1333 | teaching Latin |
| 16.1599 | Tatar | 13.1310 | teaching marketing |

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| 13.1311 | teaching mathematics | 13.1319 | technical education |
| 13.1202 | teaching normal school | 50.0410 | technical illustration |
| 51.3203 | teaching nursing | 50.0502 | technical scenography |
| 13.1009 | teaching of blind individuals | 13.1319 | technical teacher education |
| 13.1003 | teaching of deaf individuals | 13.1319 | technical teacher |
| 13.1017 | teaching of individuals in elementary special education programs | 50.0502 | technical theatre |
| 13.1018 | teaching of individuals in intermediate school special education programs | 11.0105 | technological interface design |
| 13.1018 | teaching of individuals in junior high school special education programs | 13.1309 | technology education |
| 13.1018 | teaching of individuals in middle school special education programs | 22.0101 | technology law (except graduate level) |
| 13.1019 | teaching of individuals in secondary special education programs | 22.0212 | technology law (graduate level) |
| 13.1014 | teaching of individuals who are developmentally delayed | 52.0216 | technology management |
| 13.1013 | teaching of individuals with autism | 13.1309 | technology teacher education |
| 13.1005 | teaching of individuals with emotional disturbances | 13.1309 | technology teacher |
| 13.1006 | teaching of individuals with intellectual disabilities | 14.1004 | telecommunication engineering |
| 13.1007 | teaching of individuals with multiple disabilities | 15.0305 | telecommunications engineering technician |
| 13.1008 | teaching of individuals with orthopedic and other physical health impairments | 15.0305 | telecommunications engineering technology |
| 13.1011 | teaching of individuals with specific learning disabilities | 14.1004 | telecommunications engineering |
| 13.1012 | teaching of individuals with speech or language impairments | 52.2101 | telecommunications management |
| 13.1016 | teaching of individuals with traumatic brain injuries | 15.0305 | telecommunications technician |
| 13.1009 | teaching of individuals with vision impairments | 15.0305 | telecommunications technology |
| 13.1006 | teaching of intellectually-impaired individuals | 52.1804 | telemarketing |
| 13.1329 | teaching physics | 14.0999 | telematics and networking engineering |
| 13.1303 | teaching secretarial skills | 61.0215 | telemedicine - fellowship |
| 13.1330 | teaching Spanish | 47.0103 | telephone installation |
| 13.1001 | teaching special education | 46.0303 | telephone line installation |
| 13.0101 | teaching | 46.0303 | telephone line repair |
| 09.0908 | technical and scientific communication | 46.0303 | telephone lineman/linewoman |
| 09.0908 | technical communication | 52.0406 | telephone operator |
| 10.0105 | technical communications assistant | 47.0103 | telephone repair |
| 15.1301 | technical drafting | 52.0411 | teleservice customer representative |
| 15.1301 | technical drawing | 52.0411 | teleservice operation |
| | | 52.0411 | teleservice |
| | | 10.0202 | television and new media production |
| | | 10.0202 | television broadcast technology |
| | | 10.0202 | television broadcasting technician |
| | | 50.0511 | television comedy screenwriting |
| | | 10.0202 | television production technology |
| | | 16.0799 | Telugu |
| | | 51.1404 | temporomandibular disorders and orofacial pain |
| | | 51.1404 | temporomandibular disorders |
| | | 51.1512 | terminal care |

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| 16.0199 | terminology and translation | 50.0507 | theatrical directing |
| 46.0413 | terrazzo, tile and marble setter | 50.1004 | theatrical management |
| 43.0399 | terrorism and counterterrorism operations | 50.0507 | theatrical production |
| 13.1401 | TESL | 39.0601 | theological studies |
| 13.1401 | TESOL | 39.0601 | theology |
| 01.0680 | testing of cannabis products | 40.0511 | theoretical chemistry |
| 50.0712 | textile arts | 40.0810 | theoretical physics |
| 19.0904 | textile chemist | 27.0502 | theoretical statistics |
| 19.0904 | textile chemistry | 38.0199 | theory and criticism |
| 19.0902 | textile design | 51.3501 | therapeutic massage |
| 14.2801 | textile engineering | 51.0907 | therapeutic radiographer |
| 19.0902 | textile manufacturing | 61.2611 | therapeutic radiologic physics - residency |
| 19.0902 | textile production | 51.2309 | therapeutic recreation |
| 19.0904 | textile science | 51.0817 | therapy assistant - occupational therapy and physiotherapy |
| 14.2801 | textile sciences and engineering | 60.0315 | theriogenology - residency |
| 50.0712 | textile studies | 46.0414 | thermal insulation installer |
| 19.0904 | textile technology | 14.4802 | thermal power engineering (non-nuclear) |
| 30.5201 | textual studies and digital humanities | 14.2301 | thermal power engineering (nuclear) |
| 30.5203 | textual studies | 15.0806 | third class marine engineer |
| 16.1407 | Thai language and literature | 61.2707 | thoracic surgery - fellowship |
| 16.1407 | Thai language | 38.0202 | Tibetan Buddhism |
| 16.1407 | Thai literature | 16.0304 | Tibetan language and literature |
| 16.1407 | Thai | 16.0304 | Tibetan language |
| 30.5301 | thanatology | 16.0304 | Tibetan literature |
| 36.0117 | theatre (not for credit) | 05.0131 | Tibetan studies |
| 50.0512 | theatre and dance | 16.0304 | Tibetan |
| 50.1004 | theatre arts management | 46.0413 | tile layer |
| 50.0501 | theatre arts studies | 46.0413 | tiler setter |
| 50.0501 | theatre arts | 46.0413 | tiling and flooring technician |
| 50.0505 | theatre criticism | 46.0413 | tiling |
| 50.0502 | theatre design and technology | 50.0916 | timpani |
| 50.0507 | theatre directing | 48.0506 | tinsmith |
| 50.0505 | theatre history and analysis | 48.0506 | tinsmithing |
| 50.0505 | theatre history | 47.0699 | tire repair |
| 50.0505 | theatre literature, history and criticism | 47.0699 | tire specialist |
| 50.0505 | theatre literature | 51.1510 | toddler mental health services |
| 50.0506 | theatre performance | 16.1401 | Tongan |
| 50.0507 | theatre production | 48.0507 | tool and die maker |
| 50.0501 | theatre studies | 48.0507 | tool and die technician |
| 50.0502 | theatre technical production | 48.0507 | tool and die technology |
| 50.0502 | theatre technician | 48.0507 | tool and die |
| 50.0501 | theatre | 48.0507 | tool and die |
| 50.0502 | theatrical design | 14.9999 | tool engineering |

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| 48.0507 | tool maker | 51.1402 | translational and clinical science |
| 48.0507 | tool making | 51.1402 | translational medicine |
| 48.0507 | toolmaker | 51.1402 | translational research in health sciences |
| 45.0702 | topography | 51.1402 | translational science |
| 27.0105 | topology and foundations | 42.2817 | transpersonal psychology |
| 27.0105 | topology | 61.0818 | transplant hepatology - fellowship |
| 14.1001 | total ship systems engineering | 60.0919 | transplant surgery physician assistant - fellowship |
| 52.0999 | tourism and hotel management | 60.0919 | transplant surgery physician assistant - residency |
| 52.0903 | tourism and travel management | 60.0919 | transplant surgery physician associate - fellowship |
| 52.0903 | tourism and travel services management | 60.0919 | transplant surgery physician associate - residency |
| 52.1905 | tourism and travel services marketing operations | 60.0919 | transplant surgery physician associate - residency |
| 52.1905 | tourism and travel | 60.0746 | transplantation nurse practitioner - fellowship |
| 52.1906 | tourism development | 60.0746 | transplantation nurse practitioner - residency |
| 52.1905 | tourism marketing management | 60.0832 | transplantation pharmacy - fellowship |
| 52.1905 | tourism marketing | 60.0832 | transplantation pharmacy - residency |
| 52.1906 | tourism products promotion | 36.0202 | Transport Canada Civil Aviation (TCCA) private pilot licence - aeroplane (not for credit) |
| 52.1906 | tourism promotion operations | 36.0204 | Transport Canada Civil Aviation (TCCA) private pilot licence - helicopter (not for credit) |
| 52.1906 | tourist product development | 47.0201 | transport refrigeration mechanic |
| 04.0301 | town planning | 47.0201 | transport refrigeration service technician |
| 26.1004 | toxicology | 47.0201 | transport refrigeration systems technician |
| 49.0205 | tractor trailer driver | 47.0201 | transport refrigeration technician |
| 49.0205 | tractor trailer operation | 47.0613 | transport trailer mechanic |
| 13.1320 | trade and industrial teacher education | 47.0613 | transport trailer technician |
| 13.1320 | trade and industrial teacher | 49.0205 | transport truck driver |
| 22.9999 | trademark agent | 52.0209 | transportation administration |
| 50.0201 | traditional arts and crafts | 44.0403 | transportation and infrastructure planning |
| 51.3302 | traditional Chinese medicine and Chinese herbology | 44.0403 | transportation and infrastructure studies |
| 51.3302 | traditional Chinese medicine | 52.0410 | transportation clerk |
| 52.0410 | traffic clerk | 52.0209 | transportation demand management |
| 49.0207 | traffic control - flagging | 15.0201 | transportation engineering technology |
| 14.0804 | traffic engineering | 14.0804 | transportation engineering |
| 52.0410 | traffic technician | 52.0209 | transportation facilities operation and management |
| 49.0208 | train conductor | 22.0223 | transportation law (graduate level) |
| 49.0208 | train dispatcher | 52.0209 | transportation logistics |
| 13.0203 | training for teachers of Aboriginals | 52.0209 | transportation management |
| 39.0301 | trans-cultural mission | | |
| 61.1804 | transfusion medicine - fellowship | | |
| 30.0001 | transitional vocational program | | |
| 16.0103 | translation and interpretation | | |
| 16.0199 | translation assistant | | |
| 16.0103 | translation | | |

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| 52.0209 | transportation mobility management | 01.0607 | turf science |
| 44.0403 | transportation planning | 01.0607 | turf technician |
| 52.0410 | transportation technician | 01.0607 | turfgrass management |
| 03.9999 | trapping | 01.0607 | turfgrass technology |
| 60.0747 | trauma and critical care nurse practitioner - fellowship | 16.1501 | Turkish language and literature |
| 60.0747 | trauma and critical care nurse practitioner - residency | 16.1501 | Turkish language |
| 51.1513 | trauma counselling | 16.1501 | Turkish literature |
| 51.3816 | trauma nurse | 16.1501 | Turkish |
| 51.3816 | trauma nursing | 16.1599 | Turkmen |
| 52.1905 | travel agent | 47.0101 | TV and VCR repair |
| 36.0109 | travel and exploration (not for credit) | 10.0308 | typesetting |
| 52.1905 | travel consultant | 52.0408 | typing |
| 52.1905 | travel counsellor | 52.0408 | typist |
| 52.0903 | travel industry management | 10.0308 | typography |
| 52.1905 | travel marketing | | |
| 52.1905 | travel merchandising | | |
| 22.0224 | tribal law (graduate level) | U | |
| 43.0107 | tribal police | 54.0102 | U.S. history |
| 50.0914 | trombone | 16.1103 | Ugaritic |
| 51.1405 | tropical medicine and global health | 16.1599 | Uighur |
| 51.1405 | tropical medicine and public health | 16.0410 | Ukrainian language and literature |
| 51.1405 | tropical medicine | 16.0410 | Ukrainian language |
| 47.0613 | truck and coach mechanic | 16.0410 | Ukrainian literature |
| 47.0613 | truck and coach technician | 05.0132 | Ukrainian studies |
| 47.0613 | truck and trailer mechanic | 16.0410 | Ukrainian |
| 47.0613 | truck and transport mechanic | 36.0202 | ultra-light pilot permit (not for credit) |
| 47.0613 | truck and transport service technician | 51.0910 | ultrasonography |
| 47.0613 | truck and transport technician | 51.0910 | ultrasound technician |
| 49.0205 | truck driver | 51.0910 | ultrasound technology |
| 49.0205 | truck driving instructor | 32.0203 | undergraduate entrance examination preparation (not for credit) |
| 49.0205 | truck driving | 32.0203 | undergraduate placement examination preparation (not for credit) |
| 47.0613 | truck mechanic | 15.0901 | underground mining |
| 47.0613 | truck service technician | 61.0216 | undersea and hyperbaric medicine - fellowship |
| 49.0205 | trucking | 61.0216 | undersea medicine - fellowship |
| 47.0613 | truck-trailer service technician | 48.0508 | underwater welding |
| 50.0914 | trumpet | 12.0407 | unisex hairdressing |
| 50.0914 | tuba | 05.0102 | United States civilization |
| 49.0309 | tugboat master | 45.1002 | United States government and politics |
| 01.0607 | turf and turfgrass | 54.0102 | United States history |
| 01.0607 | turf maintenance | 05.0102 | United States studies |
| 01.0607 | turf management | | |

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| 13.0406 | university administration | 60.0920 | urology physician assistant - residency |
| 53.0102 | university preparatory program | 60.0920 | urology physician associate - fellowship |
| 13.1214 | university professor | 60.0920 | urology physician associate - residency |
| 13.1214 | university teaching | 22.0217 | US criminal law (graduate level) |
| 48.0303 | upholsterer | 45.1002 | US government and politics |
| 48.0303 | upholstering | 22.0203 | US law (graduate level) |
| 48.0303 | upholstery | 11.0105 | user experience design |
| 05.0120 | Ural-Altaic studies | 50.0499 | user-centred design |
| 16.1502 | Uralic languages and literature | 01.0699 | utility arborist |
| 16.1502 | Uralic languages | 46.9999 | utility locating technician |
| 16.1502 | Uralic linguistics | 11.0105 | UX design |
| 16.1502 | Uralic literature | 11.0105 | UXD |
| 16.1103 | Urartian | 16.1599 | Uzbek |
| 45.1201 | urban affairs | | |
| 01.0610 | urban and community horticulture | V | |
| 04.0301 | urban and regional planning | 38.0104 | value theory and applied ethics |
| 04.0301 | urban and rural planning | 61.2612 | vascular and interventional radiology - fellowship |
| 01.0699 | urban arboriculture | 61.1107 | vascular neurology -fellowship |
| 36.0120 | urban beekeeping (not for credit) | 61.2612 | vascular radiology - fellowship |
| 04.0301 | urban design | 51.0910 | vascular sonography |
| 26.1301 | urban ecosystems | 61.2708 | vascular surgery - fellowship |
| 13.0410 | urban education and leadership | 52.1907 | vehicle and vehicle parts and accessories marketing operations |
| 03.0508 | urban forestry | 47.0612 | vehicle emissions inspection |
| 01.0610 | urban horticulture | 47.0612 | vehicle emissions technician |
| 52.1501 | urban land economics | 47.0600 | vehicle maintenance |
| 03.0199 | urban land regeneration | 47.0600 | vehicle repair |
| 44.0401 | urban management and analysis | 47.9999 | vending machine electromechanics |
| 44.0401 | urban management | 11.0203 | vendor-specific certification |
| 39.0703 | urban ministry | 01.8204 | veterinary administrative assistant |
| 04.0301 | urban planning | 01.8201 | veterinary administrative clerk |
| 45.1201 | urban studies | 01.8201 | veterinary administrative services |
| 44.0403 | urban transportation planning | 01.8105 | veterinary anatomy (Cert., MS, MSc, PhD) |
| 16.0707 | Urdu language and literature | 01.8105 | veterinary anatomy |
| 16.0707 | Urdu language | 60.0301 | veterinary anesthesiology - residency |
| 16.0707 | Urdu literature | 01.8301 | veterinary assistant |
| 16.0707 | Urdu | 60.0319 | veterinary behaviourist - residency |
| 46.0414 | urea formaldehyde removal | 60.0320 | veterinary clinical pharmacology - residency |
| 60.0748 | urgent care nurse practitioner - fellowship | 01.8101 | veterinary clinical science (Cert., MS, MSc, PhD) |
| 60.0748 | urgent care nurse practitioner - residency | 60.0302 | veterinary dentistry - residency |
| 61.2801 | urology - residency | | |
| 60.0749 | urology nurse practitioner - fellowship | | |
| 60.0749 | urology nurse practitioner - residency | | |
| 60.0920 | urology physician assistant - fellowship | | |

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| 60.0303 | veterinary dermatology - residency | 01.8110 | veterinary preventive medicine |
| 60.0304 | veterinary emergency and critical care medicine - residency | 01.8110 | veterinary public health |
| 01.8110 | veterinary epidemiology | 60.0313 | veterinary radiology - residency |
| 01.8204 | veterinary executive assistant | 01.8203 | veterinary reception |
| 01.8107 | veterinary immunobiology | 01.8203 | veterinary receptionist |
| 01.8106 | veterinary infectious diseases (Cert., MS, MSc, PhD) | 01.8101 | veterinary sciences (Cert., MS, MSc, PhD) |
| 01.8106 | veterinary infectious diseases | 01.8204 | veterinary secretary |
| 60.0305 | veterinary internal medicine - residency | 60.0314 | veterinary surgery - residency |
| 01.8101 | veterinary medical science (Cert., MS, MSc, PhD) | 01.8301 | veterinary technician |
| 01.8001 | veterinary medicine (DVM) | 01.8301 | veterinary technologist |
| 60.0307 | veterinary microbiology - residency | 01.8301 | veterinary technology |
| 01.8107 | veterinary microbiology and immunobiology (Cert., MS, MSc, PhD) | 60.0316 | veterinary toxicology - residency |
| 01.8107 | veterinary microbiology | 01.8111 | veterinary toxicology and pharmacology (Cert., MS, MSc, PhD) |
| 60.0308 | veterinary nutrition - residency | 01.8111 | veterinary toxicology |
| 01.8201 | veterinary office administration clerk | 50.0916 | vibraphone |
| 01.8202 | veterinary office administration | 45.0401 | victimology |
| 01.8201 | veterinary office assistant | 50.0411 | video game 3D modelling |
| 01.8201 | veterinary office clerk | 50.0411 | video game design and development |
| 01.8202 | veterinary office management | 11.0204 | video game design and programming |
| 01.8202 | veterinary office manager | 50.0411 | video game design |
| 01.8203 | veterinary office reception | 11.0204 | video game development and programming |
| 01.8203 | veterinary office receptionist | 11.0204 | video game programming |
| 60.0309 | veterinary ophthalmology - residency | 10.0304 | video graphics |
| 01.8106 | veterinary parasitology (Cert., MS, MSc, PhD) | 10.0201 | video technician |
| 01.8108 | veterinary pathobiology | 05.0206 | Vietnamese American studies |
| 60.0310 | veterinary pathology - residency | 05.0206 | Vietnamese Canadian studies |
| 01.8108 | veterinary pathology and pathobiology (Cert., MS, MSc, PhD) | 16.1408 | Vietnamese language and literature |
| 01.8108 | veterinary pathology | 16.1408 | Vietnamese language |
| 01.8111 | veterinary pharmacology | 16.1408 | Vietnamese literature |
| 01.8109 | veterinary physiology (Cert., MS, MSc., PhD) | 16.1408 | Vietnamese |
| 01.8109 | veterinary physiology | 01.1004 | viniculture |
| 60.0311 | veterinary practice - residency | 01.1004 | vinification |
| 01.8202 | veterinary practice administration | 50.0911 | viola |
| 01.8202 | veterinary practice management | 47.0404 | violin maker |
| 01.8202 | veterinary practice manager | 47.0404 | violin making |
| 60.0312 | veterinary preventive medicine - residency | 50.0911 | violin performance |
| 01.8110 | veterinary preventive medicine, epidemiology and public health (Cert., MS, MSc, PhD) | 50.0911 | violin |
| | | 26.0504 | virology |
| | | 11.0804 | virtual environments |
| | | 26.0909 | vision science |
| | | 50.0101 | visual and creative arts |

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| 50.0101 | visual and performing arts | 47.0408 | watchmaking |
| 13.1302 | visual arts education | 15.0506 | water and waste water treatment |
| 50.1002 | visual arts management | 14.0805 | water engineering |
| 50.0101 | visual arts | 15.0506 | water purification |
| 50.0401 | visual communications | 15.0506 | water quality technician |
| 01.1004 | viticulture | 15.0506 | water quality technology |
| 50.0908 | vocal performance | 15.0506 | water recycling technician |
| 13.0407 | vocational college administration | 15.0506 | water resources engineering technology |
| 53.0103 | vocational high school diploma | 14.0805 | water resources engineering |
| 51.2310 | vocational rehabilitation counselling | 03.0205 | water resources management |
| 51.2310 | vocational rehabilitation counsellor | 40.0605 | water resources science |
| 53.0103 | vocational secondary school diploma | 15.0506 | water resources technology |
| 13.1319 | vocational technical education | 15.0506 | water systems maintenance |
| 50.0908 | voice and opera | 15.0506 | water technician |
| 10.0204 | voice writing technician | 15.0506 | water treatment |
| 10.0204 | voice writing technology | 46.0504 | water wells drilling |
| 10.0204 | voice writing | 03.0205 | water, wetlands and marine resources management |
| 50.0908 | voice | 12.0409 | waxing (hair removal) |
| 52.0206 | voluntary sector management | 37.0106 | wealth management (not for credit) |
| 52.0206 | volunteer management | 41.0399 | weather observation |
| W | | 41.0399 | weather observer |
| 12.0507 | waiter/waitress | 50.0712 | weaving |
| 13.1208 | Waldorf teacher education | 11.1004 | web administrator |
| 13.1208 | Waldorf/Steiner teacher education | 11.0205 | web and mobile application development |
| 46.0404 | wall and ceiling installation | 11.0801 | web design and development |
| 46.0408 | wallpaper hanger | 11.0205 | web design for mobile devices |
| 11.1002 | WAN management | 11.0801 | web design |
| 11.1002 | WAN manager | 11.1004 | web developer |
| 28.0801 | war studies | 11.1004 | web development |
| 51.0703 | ward clerk | 11.1004 | web management |
| 51.0704 | ward supervisor | 11.1004 | web manager |
| 52.0409 | warehouse management | 11.0801 | web page design |
| 47.0409 | warehouse operations | 11.1004 | web site administration |
| 47.0409 | warehouse technician | 11.0801 | web site design |
| 52.0409 | warehousing management | 11.1004 | web site management |
| 15.0506 | waste water treatment | 11.1004 | webmaster |
| 15.0506 | wastewater treatment technician | 11.1004 | website development |
| 47.0408 | watch repair | 52.0907 | wedding planning |
| 49.0309 | watchkeeping mate | 48.0508 | welder |
| 49.0309 | watchkeeping officer | 48.0511 | welder-fitter |
| 47.0408 | watchmaking and jewellery making | 14.9999 | welding engineering (university) |
| | | 15.0614 | welding engineering technician |

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| 15.0614 | welding engineering technologist | 47.0704 | wind energy installation and repair technician |
| 15.0614 | welding engineering technology | 47.0704 | wind energy installation and repair technology |
| 13.1320 | welding teacher | 47.0704 | wind energy system installation and repair technician |
| 48.0508 | welding technician | 47.0704 | wind energy system installation and repair technology |
| 48.0508 | welding technology | 47.0704 | wind energy system installation technician |
| 48.0508 | welding | 47.0704 | wind energy system installation technology |
| 46.0504 | well driller | 47.0704 | wind energy system installation |
| 46.0504 | well drilling | 47.0704 | wind energy system maintenance technician |
| 51.0001 | wellness, health promotion and injury prevention | 47.0704 | wind energy system maintenance technology |
| 16.1301 | Welsh | 47.0704 | wind energy system maintenance technician |
| 16.0499 | Wendish | 47.0704 | wind energy system maintenance technology |
| 05.0114 | West European studies | 47.0704 | wind energy system repair technician |
| 05.0114 | Western European studies | 47.0704 | wind energy system repair technology |
| 16.1001 | Western Hemisphere aboriginal languages | 47.0704 | wind energy system repair |
| 38.0299 | Western religions | 15.1704 | wind energy technician |
| 38.0299 | Western religious traditions | 15.1704 | wind energy technology |
| 15.0704 | WHMIS training | 47.0704 | wind turbine installation and maintenance |
| 52.1880 | wholesale cannabis sales | 47.0704 | wind turbine installation |
| 11.1002 | wide area network management | 47.0704 | wind turbine maintenance technician |
| 11.1002 | wide area network manager | 47.0704 | wind turbine maintenance |
| 01.9999 | wild animal welfare | 47.0704 | wind turbine technician |
| 31.0601 | wilderness guide | 47.0704 | wind turbine technology |
| 61.0217 | wilderness medicine - fellowship | 47.0101 | winder electrician |
| 43.0206 | wildland arson investigation and prevention | 01.1004 | wine and fermentation |
| 43.0206 | wildland fire investigation and prevention | 01.1004 | wine fermentation |
| 43.0206 | wildland firefighter | 01.1004 | wine making |
| 43.0206 | wildland firefighting | 12.0510 | wine steward |
| 03.0207 | wildland recreation | 12.0510 | wine stewardship |
| 03.0601 | wildlife and habitat management | 01.1004 | wine technology |
| 26.0709 | wildlife biology | 01.1004 | winemaking technology |
| 03.0208 | wildlife conservation officer | 15.0305 | wireless communications technician |
| 26.1301 | wildlife ecology | 15.0305 | wireless communications technology |
| 03.0601 | wildlife management technology | 38.0299 | women in religion |
| 03.0601 | wildlife management | 05.0207 | women's and gender studies |
| 03.0208 | wildlife officer | 12.0407 | women's hairdressing |
| 03.0601 | wildlife studies | 61.0218 | women's health - fellowship |
| 03.0601 | wildlife technician | 60.0750 | women's health nurse practitioner - fellowship |
| 03.0601 | wildlife technology | 60.0750 | women's health nurse practitioner - residency |
| 03.0601 | wildlife, fish and wildlands management | | |
| 03.0601 | wildlife, fish and wildlands science | | |
| 15.1704 | wind energy engineering technician | | |
| 15.1704 | wind energy engineering technology | | |

| | | | |
|----------------|--|----------------|--|
| 60.0750 | women's health nurse practitioner | 39.0699 | worship and liturgy |
| 51.3822 | women's health nurse | 39.0502 | worship ministry |
| 51.3822 | women's health nursing | 39.0502 | worship music ministry |
| 39.0704 | women's ministry | 39.0502 | worship music |
| 37.0107 | women's self-defence (not for credit) | 39.0502 | worship studies |
| 37.0107 | women's self-defense (not for credit) | 60.0751 | wound care nurse practitioner - fellowship |
| 05.0207 | women's studies | 60.0751 | wound care nurse practitioner - residency |
| 05.0299 | women's, gay and lesbian studies, integrated | 36.0118 | writing (not for credit) |
| 14.4001 | wood and paper science | 50.0504 | writing for screen and television |
| 03.0599 | wood cutting and processing | 50.0511 | writing television comedy |
| 14.0803 | wood engineering | | |
| 03.0509 | wood products processing | X | |
| 03.0509 | wood products technology | | |
| 03.0509 | wood science and technology | 51.0911 | X-ray technician |
| 03.0509 | wood science | 51.0911 | X-ray technology |
| 48.0704 | wooden boat builder | | |
| 48.0704 | wooden boat building | Y | |
| 48.0704 | wooden boat rebuild/repairer | | |
| 48.0704 | wooden boat rebuild | 16.0599 | Yiddish |
| 48.0704 | wooden boat repair | 51.3602 | yoga instructor |
| 48.0704 | wooden boat repairer | 51.3602 | yoga teacher training |
| 48.0704 | wooden boatbuilding technician | 51.3602 | yoga teacher |
| 48.0704 | wooden boatbuilding technology | 51.3602 | yoga therapy |
| 48.0704 | wooden boatbuilding | 25.0102 | young adult library services |
| 48.0704 | wooden canoe building | 44.0702 | youth administration |
| 50.0915 | woodwind instruments | 39.0702 | youth and family ministry |
| 50.0915 | woodwind | 44.0702 | youth care worker |
| 48.0701 | woodworking technician | 43.0110 | youth corrections |
| 48.0701 | woodworking technology | 44.0702 | youth counsellor |
| 48.0701 | woodworking | 43.0110 | youth justice |
| 11.0602 | word processing | 25.0102 | youth library services |
| 19.1001 | work and family studies | 39.0702 | youth ministry |
| 32.0111 | workforce development and training (not for credit) | 39.0702 | youth pastor |
| 15.0704 | workplace hazardous materials information systems training | 44.0702 | youth services worker |
| 15.0701 | workplace health and safety | 44.0702 | youth services |
| 13.1201 | workplace trainer | 16.0399 | Yuan |
| 48.0701 | workshop joiner | | |
| 48.0701 | workshop joinery | Z | |
| 54.0199 | world history | 38.0202 | Zen Buddhism |
| 39.0301 | world missions | 60.0317 | zoological medicine - residency |
| 38.0201 | world religions | 26.0701 | zoology |
| | | 01.1005 | zymology |

Appendices

Appendix A Acronyms and superscripts

The following acronyms are used in CIP Canada 2021 Version 1.0:

| Acronym | Definition |
|-----------------|--|
| AAS | Associate of Applied Science |
| AC | Air Conditioning |
| ACH | Air Conditioning and Heating |
| ACHR | Air Conditioning, Heating and Refrigeration |
| ACR | Air Conditioning and Refrigeration |
| AEGD | Advanced Education in General Dentistry |
| AI | Artificial Intelligence |
| ASL | American Sign Language |
| ASN | Associate of Science in Nursing |
| BA | Bachelor of Arts |
| BArch | Bachelor of Architecture |
| BAS | Bachelor of Architectural Studies |
| BCL | Bachelor of Civil Law |
| BDiv | Bachelor of Divinity |
| BHASE | Business, humanities, health, arts, social science and education |
| BIM | Building Information Modeling |
| BLA | Bachelor of Landscape Architecture |
| BPharm | Bachelor of Pharmacy |
| BS | Bachelor of Science |
| BSc | Bachelor of Science |
| BScN | Bachelor of Science in Nursing |
| BSLA | Bachelor of Science in Landscape Architecture |
| BSN | Bachelor of Science in Nursing |
| CA | Chartered Accountant |
| CAD | Computer-aided Drafting |
| CAIB | Canadian Accredited Insurance Broker |
| CAM | Computer-aided Manufacturing |
| CannSell | Responsible Cannabis Sales Training Program |
| CBD | Cannabidiol |
| CCIE | Cisco Certified Internetwork Expert |
| CCNA | Cisco Certified Network Associate |
| CCNP | Cisco Certified Network Professional |
| CDA | Certified Dental Assistant |
| Cert. | Certificate |
| CEDO | Certified Exposure Device Operator |

| Acronym | Definition |
|-----------------|---|
| CEGEP | Collège d'enseignement général et professionnel |
| CGA | Certified General Accountant |
| CFSC | Canadian Firearms Safety Course |
| CIS | Commonwealth of Independent States |
| CMA | Certified Management Accountant |
| CNC | Computer Numerical Control |
| CPM | Certified Professional Midwife |
| CPR | Cardiopulmonary Resuscitation |
| DArch | Doctor of Architecture = PhD in Architecture |
| DCS | Diploma of Collegial Studies |
| DC | Doctor of Chiropractic |
| DDS | Doctor of Dental Surgery |
| Dipl. | Diploma |
| DMD | Doctor of Dental Medicine (Latin: Dentariae Medicinae Doctor) |
| DNP | Doctor of Nursing Practice = PhD in Nursing Practice |
| DO | Doctor of Osteopathic Medicine |
| DPH | Doctor of Public Health = PhD in Public Health |
| DPharm | Doctor of Pharmacy (formerly BSc in Pharmacy or BPharm) |
| DPM | Doctor of Podiatric Medicine |
| DSW | Developmental Services Worker |
| DTR | Dietetic Technician, Registered |
| DVM | Doctor of Veterinary Medicine |
| ECE | Early Childhood Education |
| ECG | Electrocardiograph |
| EDO | Exposure Device Operator |
| EEG | Electroencephalograph |
| EKG | Electrocardiograph |
| EMR | Emergency Medical Responder |
| EMT | Emergency Medical Technician |
| EMT-A | Emergency Medical Technician - Ambulance |
| EMT-P | Emergency Medical Technician - Paramedic |
| ENT | Ear, Nose, and Throat |
| ESL | English as a Second Language |
| FIIC | Fellow of the Insurance Institute of Canada |
| FSL | French as a Second Language |
| GED | General Equivalency Diploma |
| GED test | General Education Development test |
| GEOINT | Geospatial Intelligence |
| GIS | Geographic Information Science |
| GIS | Geographic Information Systems |

| Acronym | Definition |
|----------------|--|
| GP | Gas piping fitter |
| HAC | Heating and Air Conditioning |
| HACR | Heating, Air Conditioning and Refrigeration |
| HRAC | Heating, Refrigeration and Air Conditioning |
| HVAC | Heating, Ventilation and Air Conditioning |
| HVACR | Heating, Ventilation, Air Conditioning and Refrigeration |
| IB | International Baccalaureate |
| IPSE | Inclusive Post-Secondary Education |
| IT | Information Technology |
| ITEP | Indian Teacher Education Program |
| JD | Doctor of Jurisprudence (Latin: Juris Doctor) = Bachelor degree in Law |
| JM | Master of Legal Studies (Latin: Juris Master) |
| JSD | Doctor of Juridical Science (Latin: Scientiae Juridicae Doctor) = PhD in Law |
| LAN | Local Area Network |
| LDS | Latter-Day Saints |
| LLB | Bachelor of Laws (Latin: Legum Baccalaureus) = Bachelor degree in Law |
| LLD | Doctor of Laws (Latin: Legum Doctor) = PhD in Law |
| LLL | Licentiate in Laws |
| LLM | Master of Laws (Latin: Legum Magister) |
| LM | Licensed Midwife |
| LP | Licensed Producer |
| LPN | Licensed Practical Nurse |
| LVN | Licensed Vocational Nurse |
| MA | Master of Arts |
| MArch | Master of Architecture |
| MCJ | Master of Criminal Justice |
| MCL | Master of Comparative Law |
| MCSA | Microsoft Certified Systems Administrator |
| MCSE | Microsoft Certified Systems Engineer |
| MCTS | Microsoft Certified Technology Specialist |
| MD | Doctor of Medicine (Latin: Medicinae Doctor) |
| MDiv | Master of Divinity |
| MHL/Rav | Master of Hebrew Letters and Rabbinical Ordination |
| MJ | Master of Jurisprudence (Latin: Magister Juris) |
| MLA | Master of Landscape Architecture |
| MLI | Master of Legal Institutions |
| MPH | Master of Public Health |
| MRI | Magnetic Resonance Imaging |
| MS | Master of Science |
| MSc | Master of Science |

| Acronym | Definition |
|------------------------|--|
| MScLA | Master of Science in Landscape Architecture |
| MScN | Master of Science in Nursing |
| MSL | Master of Studies in Law |
| MSLA | Master of Science in Landscape Architecture |
| MSN | Master of Science in Nursing |
| ND | Doctor of Naturopathy |
| NMD | Doctor of Naturopathic Medicine |
| OD | Doctor of Optometry |
| OR | Operating Room |
| ORL | Otorhinolaryngology |
| PCOC | Pleasure Craft Operator Card |
| PharmD | Doctor of Pharmacy (formerly BSc in Pharmacy or BPharm) |
| PHCNP | Primary Health Care Nurse Practitioner |
| PhD | Doctor of Philosophy (Latin: Philosophiae doctor) |
| PSW | Personal Support Worker |
| PTSD | Post Traumatic Stress Disorder |
| QSL | Quebec Sign Language |
| RA | Rehabilitation Assistant |
| RCMP | Royal Canadian Mounted Police |
| RD | Registered Dietitian |
| RPDt | Registered Professional Dietitian |
| RDA | Registered Dental Assistant |
| RDH | Registered Dental Hygienist |
| RESO | Reserve Entry Scheme Officer |
| RETP | Reserve Entry Training Plan |
| RMT | Registered Massage Therapist |
| RN | Registered Nurse |
| RN (specialist) | Registered Nurse specialist |
| RNFA | Registered Nurse First Assistant |
| ROTP | Regular Officer Training Plan |
| RPAS | Remotely Piloted Aircraft Systems |
| RPN | Registered Practical Nurse |
| RPT | Registered Play Therapist |
| RV | Recreation Vehicle |
| SAR Tech | Search and Rescue Technician |
| SB-RPT | School Based Registered Play Therapist |
| SJD | Doctor of Juridical Science (Latin: Scientiae Juridicae Doctor) = PhD in Law |
| sRPA | Small Remotely Piloted Aircraft |
| STEM | Science, technology, engineering, and mathematics |
| sUAS | Small Unmanned Aircraft System |

| Acronym | Definition |
|----------------|---|
| sUAV | Small Unmanned Aerial Vehicle |
| TCCA | Transport Canada Civil Aviation |
| TESL | Teaching English as a Second Language |
| TESOL | Teaching English to Speakers of Other Languages |
| UX | User experience |
| UXD | User Experience Design |
| WAN | Wide Area Network |
| WHMIS | Workplace Hazardous Materials Information Systems |

Definition of superscripts

CIP classes which are comparable between Canada and the United States have identical codes. Classes that apply only in Canada use a CIP code not used in the United States and are highlighted by means of a superscript appearing at the end of the class title.

The superscript symbol used is:

CAN

Canadian class only

References

1. Classification of Instructional Programs (CIP)
 - [CIP Canada 2021 Version 1.0](#), Catalogue no. [12-590-X](#)
2. [Dictionary, Census of Population, 2021 Education definitions](#)