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**PROPOSED LINKAGE OF OCCUPATION AND MAJOR  
FIELD OF STUDY FOR SLID**

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## **EXECUTIVE SUMMARY**

The Survey of Labour and Income Dynamics (SLID) includes information on respondents' current occupations and the fields of study in which they have obtained any postsecondary qualifications. To explain other characteristics measured in SLID, such as wages, supervisory roles, and job stability, it would be useful to know whether a person is working in a job related to his or her postsecondary education.

A variable has been proposed on an experimental basis to show whether the person's job is related to their postsecondary education. The variable is supported by a linkage table between intermediate-level categories of the 1991 Census Major Field of Study classification and the 1980 Standard Occupational Classification (SOC).

The table was constructed in-house by SLID. Feedback on the usefulness of this experimental variable or the linkage table would be welcome.

It should be noted that the Census of Population has examined the feasibility of constructing this concordance table but concluded that even a concordance table using the most detailed codes would have many quality problems. Despite this, SLID has proceeded since the objective of the variable would not be to provide estimates of the number of persons working in a field related to their education, but to help analysts explain other phenomena; for example, to what extent does the relationship between occupation and education explain a difference in earnings? In other words, the proposed variable may have limited use on its own but would be useful if it has considerable analytical value in conjunction with other variables.



## TABLE OF CONTENTS

|  | Page |
|--|------|
| 1. Introduction                                    | 1    |
| 2. Analytical value                                | 2    |
| 3. The two approaches: Experience of other surveys | 3    |
| 4. Relevant features of SLID                       |      |
| 4.1 Analytical objectives                          | 5    |
| 4.2 Starting variables                             | 5    |
| 5. Designing the linkage table                     |      |
| 5.1 Determining "relatedness"                      | 7    |
| 5.2 Optimal level of detail                        | 9    |
| 6. Presentation of the linkage table               |      |
| 6.1 Summary table                                  | 10   |
| 6.2 The linkage table                              | 13   |
| References   | 14   |

## APPENDICES

|   |    |
|---|----|
| Appendix 1: About the standard classifications  | 15 |
| Appendix 2: Question sets from the GSS and the NGS on the relationship<br>between job and education | 17 |
| Appendix 3: Summary table:  |    |
| A) By SOC categories  | 19 |
| B) By MFS categories  | 22 |
| Appendix 4: The linkage table   |    |
| A) By SOC categories  | 25 |
| B) By MFS categories  | 48 |

## 1. INTRODUCTION

The Survey of Labour and Income Dynamics (SLID) includes information on respondents' current occupations and the fields of study in which they have obtained any postsecondary qualifications. To explain other characteristics measured in SLID, such as wages, supervisory roles, and job stability, it would be useful to know whether a person is working in a job related to his or her postsecondary education.

SLID does not currently ask respondents if they are working in an occupation related to their postsecondary education, although this could be considered if the demand warrants it. Some other surveys contain direct questions on the topic.

Alternatively, it may be possible to derive information on occupation-education relatedness from existing questions using a linkage table between occupation and field of study. The cost of doing this would be low, and it could be done during current processing without modifications to the SLID interviews. The main work lies in designing the linkage matrix or table, which can be reused each year.

This paper discusses the issues surrounding the establishment of a linkage table and proposes a specific table for SLID, based on the medium levels of detail of the 1980 Standard Occupational Classification (SOC) and the 1991 Census Major Field of Study (MFS) classification (Appendix 4).<sup>1</sup>

It is hoped that the inclusion of the table will accelerate feedback from anyone who may be interested in seeing or using this kind of information in SLID. Feedback on both the general issues and specifics would be welcome. For example, can such a linkage table adequately reflect reality, and what modifications should we make to

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<sup>1</sup>*Standard Occupational Classification, 1980*, Statistics Canada, Catalogue No. 12-565, 1981 and *Major Fields of Study of Postsecondary Graduates*, Statistics Canada, Catalogue No. 93-329, 1993. For details about each classification relevant to various sections of this paper, refer to Appendix 1, *About the standard classifications*.

the version we now have? Sections of the proposed table could be modified easily in response to external comments or reviews.

The next section briefly raises some topics for analysis using SLID data that would use the derived information on whether people's jobs and education are related. Following that, the alternative approaches of direct questioning and indirect linkage are outlined with reference to other surveys. Section 4 considers the particular features of the Survey of Labour and Income Dynamics which need to be considered: what are the minimal analytical requirements of such a variable in SLID and what existing information will be used to obtain it. Section 5 deals with the challenges of defining "related" and choosing an appropriate level of detail for the linkage table. Section 6 explains the presentation of the linkage matrix or table as it appears in the appendixes.

## **2. ANALYTICAL VALUE**

A derived variable identifying whether a person's current occupation is related to their postsecondary education could be used to explain characteristics such as wages, job tenure or job stability, and managerial roles.

For example, how do wages of workers in occupations related to their education compare to those of workers without postsecondary credentials specific to their job? Does this explain any of the observed differences in wages between subgroups of the population, for example between men and women?

More and more people are working part-time. Part-time jobs are typically associated with lower qualification requirements, but is there evidence of a trend towards part-time schedules for career-related jobs as well?



Focusing on employment transitions, how significant is the wage difference when a person moves from a job that is not related to his or her education to one that is? How often do people accept a drop in pay when they switch to a job that is related to their education? And how often do people change jobs in the other direction?

### **3. THE TWO APPROACHES: EXPERIENCE OF OTHER SURVEYS**

At the present time, no national survey or census in Canada has developed a framework for linking all occupations and fields of study for the purposes of determining work and education relatedness. However, two surveys which have posed the question directly to respondents are the National Graduates Survey and the General Social Survey Cycle 4 on Education and Work. The topic of the relationship between people's jobs and their education was central to both these surveys.

The approach of posing the question directly, although it involves higher survey costs and respondent burden, may be conceptually superior. First, a decision about whether a given occupation and a given field of study are related is not clear-cut in all cases (more on this below). Respondents themselves may be the best qualified to make this assessment since they understand more fully what their job is and what their program of study was designed to do. They are not restricted by having to classify their particular jobs or studies.

Direct questioning offers the flexibility to word the question in a particular way or use several questions to define relatedness. For example, in 1984 and 1988 the National Graduates Survey asked postsecondary graduates of 1982 and 1986 if their job was one for which their educational program was designed and if they

used any of the skills they acquired in their education program.<sup>2</sup> It also asked whether their study program was intended to prepare them for a specific job or career. The question of job and education relatedness is particularly relevant at the outset of a career. With higher management jobs, which are not usually held until later in life, the link to field of study may be more complex and tenuous.

In 1989 the General Social Survey Cycle 4 asked Canadians of all educational backgrounds, “How closely is your job related to your education?”<sup>3</sup> Like the NGS, it included a question on job satisfaction. It also asked respondents whether they felt overqualified for their jobs.

See Appendix 2 for more details on these surveys.

In preparation for the 1991 Census of Population, the idea of relating educational fields and occupation in a concordance table was considered. Even for the Census, a linkage was not feasible pair by pair at the most detailed levels, since it involves examining over 240,000 different combinations. After examining sections of each classification, it was concluded that in approximately one-third of all cases it would be impossible to infer with certainty whether a given field of study and occupation are related, not related or semi-related. Since results of completing a linkage were expected to be unsatisfactory, a concordance of educational field and occupation was not applied to Census microdata.

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<sup>2</sup>*The Class of 86*, Employment and Immigration Canada and Statistics Canada, 1992.

<sup>3</sup>*Human Resource Challenges of Education, Computers and Retirement*, Statistics Canada, General Social Survey Analysis Series No. 7, Catalogue No. 11-612, 1992.

## **4. RELEVANT FEATURES OF SLID**

### **4.1 Analytical objectives**

While the Census of Population specializes in obtaining cross-sectional data of the highest quality, SLID's strength lies in its wide variety of variables specific to labour, income and demographics in a longitudinal format. This gives it enormous potential for drawing connections between events or conditions and a wide range of possible determinants. In SLID, the goal of adding a derived variable on work-education relatedness is not to know with the greatest accuracy what proportion of employed Canadians are working in an occupation related to their education, but to what extent this characteristic determines others such as employment stability and earnings. It may have limited use on its own but considerable analytical value in conjunction with other variables.

A variable on work-education relatedness could be tested using regression analysis, i.e. by seeing whether it is "statistically significant" when used as an explanatory variable for other characteristics. The strength of alternative linkage tables could likewise be tested.

### **4.2 Starting variables**

When they first enter the sample, respondents are asked to report the occupation of up to 2 jobs held at that time. Thereafter, up to six jobs held during the previous year may be recorded. This information is coded at the four-digit level of detail in the 1980 Standard Occupational Classification (SOC), which has 502 categories. It is also rolled up using a number of different typologies, including the major groups (21 levels) and minor groups (79 levels).

Also when they first enter the sample, respondents are asked to report the field of study of their highest university degree, certificate or diploma and their most recent certificate or diploma from other types of postsecondary institutions, if they have such certificates. Thereafter, each year, the major field of study is collected for all postsecondary degrees, certificates or diplomas obtained during the previous year. This information is coded at the most detailed level of the 1991 Census Major Field of Study classification (480 categories). It is also rolled up to 110 field of study groups (minor groups) and further to 10 broad groups (major groups).

The assessment of the level of “relatedness” is done independently for every job a person holds. All of a person’s certificates should be considered simultaneously to determine the relationship between education and a particular job, so that if any of the person’s postsecondary education is in a field deemed to be related to the occupation, then the job is deemed to be in a field related to the person’s education.

Due to the questions in the preliminary (first) interview, some exclusions will persist for individuals with more than one university degree or more than one non-university diploma at the time of the preliminary interview. For example, if a woman received both a bachelor’s degree in engineering and a Masters of Business Administration and she states “engineer” as her occupation, the variable will consider only the combination MBA and engineer, which are unrelated in the table. Such cases are not likely to occur so frequently that the analytical results are distorted. However, they could cause greater concern where exact counts of the population are the objective.

## 5. DESIGNING THE LINKAGE TABLE

### 5.1 Determining "relatedness"

The establishment of a linkage matrix or table entails a decision about whether each occupation-education combination is related. Fortunately, the task is simplified by the fact that the majority of occupation/education combinations are clearly unrelated. Many combinations are also quite obviously related. However, there remain a significant number of grey areas. Even for people who know the occupation or educational program well, it may be difficult to define the dividing lines between "related", "not related", and any intermediate categories. Nevertheless, this subjective assessment has been attempted for SLID.

Following the example of the GSS, NGS and those who considered a linkage for the Census, the "grey" areas between clearly related and clearly unrelated are called "somewhat related" in the proposed linkage table. In some cases this term has to be interpreted as "maybe related". Slightly different descriptions have been used by the General Social Survey and the National Survey of Graduates. The NGS uses "partly related" for all cases falling between "directly related" and "not related", and the GSS uses "somewhat related" in contrast with "closely related" and "not at all" related.

One particular type of "grey" area arises due to the use of classifications. In some cases, a category has some *subcategories* which are clearly related to all or part of a category in the other classification and others which are not. For example, occupations in Child care services are grouped with those in Police and para-legal technologies, which clearly do not have the same educational requirements (assuming a postsecondary certificate is required for either). These occupation and field of study categories are called "partially related" here (or alternatively "partial

match”). In a few cases, both “somewhat related” and “partially related” are used to describe the match. Obviously, the particular aggregations within a classification are to some extent arbitrary, and the degree of homogeneity in the groupings can vary. It may be possible, later, to further break down the table at the most detailed level for some partial matches if it seems that this would be a big improvement. One redeeming aspect of the compromise of partial matches rather than going to greater detail is that when a person’s work and educational program fit a partial match, they quite likely match at the detailed level.

Another inherent restriction of classifications is that each occupation description must use a single title. Sometimes a single title does not adequately capture all the information necessary to determine whether it is related to a certain educational program. To continue the example used above, a manager of an engineering firm must be coded either among engineers or managers to fit the classification.

A common case of this is teachers who do not have postsecondary qualifications in education or teaching. This would apply to many university and college teachers. The solution applied here is to match university teaching and other postsecondary teaching with all fields of study.

Occupations as managers are a special case, where the link with any particular area of study will often be weak in practice; many managers may not have degrees in management, although they may have postsecondary credentials. This is one example of how it is impossible to categorize all occupations by area of study so they are instead ranked by another criterion, such as position in an occupational hierarchy. (Many other occupations in the classification are grouped by product or service group; however, they are less likely to require postsecondary degrees or diplomas.) The solution in the proposed linkage table is to not define the degree of relationship for occupations as managers or administrators (corresponding to three

minor group categories in the SOC under the major group heading of Managerial, administrative and related occupations).

Note that there may be some occupational categories with no match. (In practice, there are occupations where most jobs are held by people without postsecondary education at all.) Not all careers are dependent on postsecondary schooling, although they may require certain skills or on-the-job training instead. However, no attempt has been made to identify occupations not requiring postsecondary qualifications. The proposed linkage is based on subject matter areas and not the level of education required.

## **5.2 Optimal level of detail**

Choosing the level of detail for a linkage table involves a trade-off between minimizing the time required to label all combinations of occupation and educational program as related/unrelated and maximizing our confidence in identifying appropriate matches. Linking categories at the most detailed level of both the SOC and the MFS would result in 240,960 different combinations (502 SOC codes and 480 MFS codes).

However, while preparing this table, it quickly became apparent that in practice, it was necessary to examine, at least briefly, the most detailed levels of both the MFS and the SOC. Although we developed a table at the medium level of detail of both classifications, to do so we often looked at the subcategories (the most detailed level) to determine whether a match is partial or complete. For some medium-level combinations it is not necessary to think long about matches at the finest level of detail: a quick examination is sufficient to reveal that there is no match. However, for others it is very important to go to the next level. Partial matches as well as related pairs are identified this way. If a match is still not obvious at the

most detailed level, a decision has to be made anyway. Usually, these combinations are identified as “somewhat related”.

Additional detail does not always facilitate decisions about matches. For example, the broad category of medicine and health exists in both the SOC and the MFS. It is an obvious match at this level. However, at the detailed level, we can form all sorts of improbable combinations. For example, is an occupation as a veterinarian closely or even somewhat related to a study program in psychiatry? As a solution, in the proposed table all combinations under medicine and health are set as “related”, assuming that the more unrelated combinations rarely arise in practise. The same logic makes the use of partial matches at the medium level more acceptable.

## **6. PRESENTATION OF THE LINKAGE TABLE**

The linkage table is in Appendix 4, preceded by a summary table in Appendix 3. The summary table is intended to facilitate a review of the linkage, but it does not substitute for a review of the main table.

The linkage table and the summary table are each presented in two equivalent formats, “A” and “B”. “A” is structured in the order of the major groups of the Standard Occupational Classification and “B” is in the order of the Major Fields of Study classification.

### **6.1 Summary table**

The linkage is only valid at the intermediate level of each classification, as shown in the main table (see Section 6.2 below). However, the summary table in Appendix 3 is useful to show which major group combinations have any matches



at the medium level. For example, subcategories of the major occupational group “Religion” only match with subcategories of one MFS major group “Humanities and related”. Subcategories of another occupational heading, “Natural sciences, engineering and mathematics” match with subcategories of seven different MFS major groups.

For every major group combination with any matches, the summary tables show how many pairs are “related”, “partially related”, “somewhat related” or both “somewhat and partially related”. This last category means that some of the subcategories are somewhat related.

The existence of any related or somewhat related combinations (as shown by the summary tables) is an indicator of the strength of association between the two major groups they belong to. However, the exact number of each type of combination (related, partially related, and so on) is often arbitrary, since it depends on the arbitrary nature of classifications. For example, the SOC happens to have 3 teaching categories at the minor group level while the MFS has 8 teaching categories. Since all are related, this results in 24 matches. But if either classification broke down the categories differently, either conceptually or between the detailed and intermediate levels, the result could be quite different.

The exact number of each type of match is also a by-product of how this proposed table deals with “other” categories and teaching occupations. “Other” and “n.e.c.” categories have two functions: they group together occupations that are too rare to be a stand-alone category and they are a “catchall” for occupational descriptions that are not sufficiently precise to allow coding to one of the other (more specific) categories. Since they are by definition non-specific, they are indicated here as partially or somewhat related with a wide range of categories. For example, Other

engineering/applied science technologies, n.e.c. is matched with virtually all categories in major groups 15 through 21, resulting in 31 partial matches.

Teaching occupations have been matched with all fields of study to cover cases of postsecondary teachers who do not have qualifications specifically in education but who are presumably teaching in an area for which they have postsecondary qualifications. This raises the proportion of related pairs.

Table 1 below shows a summary of the distribution of each type of match among 8,284 pairs in total (109 x 76). (Managerial occupation codes are not included.) The proportion of matches depends on the level, major or minor. The major group combinations, which were used only to structure the table, all include some non-matches except for one: the SOC major group Medicine and Health and the MFS major group Health. In total, 41% or 45 of 110 major combinations have any matches at that level of the linkage.

**Table 1: Types of matches between occupations and fields of study in the linkage table**

|   | Related | Partial match | Somewhat related | Partial & somewhat related | Total, any match | No match | TOTAL PAIRS |
|---|---------|---------------|------------------|----------------------------|------------------|----------|-------------|
| Total   | 342     | 87            | 99               | 68                         | 596              | 7688     | 8284        |
| Total excluding teaching                                | 220     | 87            | 98               | 68                         | 473              | 7484     | 7957        |
| Major combinations with any matches at the medium level | 22      | 12            | 17               | 7                          | 45*              | 65       | 110         |

*\*Total does not add because some major combinations have more than one type of match.*

However, the proportion drops dramatically among the minor group combinations, where only 7% or 596 of 8284 combinations are matches, and the rest are complete non-matches. (When teaching occupations are excluded, the proportion of matching combinations becomes 473 out of 7957, or not quite 6%.) If the

linkage were done at the finest level of detail, the proportion of matches would certainly be lower.

## 6.2 The linkage table

The linkage table (presented in Appendix 4) is also organized by major group headings (“A” by SOC and “B” by MFS), but it shows the actual matches at the minor group level. Below is an example, taken from Appendix 4, of the presentation for one major group combination:

|   |         |         |   |         |           |
|---|---------|---------|---|---------|-----------|
| 01  | 001-009 | 001-046 | 05  | 015-017 | 2711-2799 |
| Educational, recreational and counselling services  |         |         | Teaching  |         |           |
| Related   |         |         |   |         |           |
| 001 Education-General<br>002 Elementary-Primary education<br>003 Secondary education (basic)<br>004 Secondary education (specialized)<br>005 Special education<br>006 Non-teaching educational fields<br>007 Physical education, health and recreation<br>009 Other education |         |         | 015 University teaching<br>016 Elementary and secondary school teaching<br>017 Other teaching |         |           |
| 008 Counselling services and personal development   |         |         | 015 University teaching<br>017 Other teaching   |         |           |
| Somewhat related  |         |         |   |         |           |
| 008 Counselling services and personal development   |         |         | 016 Elementary and secondary school teaching  |         |           |

The shaded cells show all information on the major categories: the first code in each column is the major group code used by SLID, the centre code range covers the minor group categories under that major heading, using the coding system produced for the linkage exercise, and the next range shows the same codes at the finest level of detail, using the original coding system from the relevant classification.

Below that, the heading “Related” refers to all two-column combinations appearing below until the next heading, which is “Somewhat related”. Eight educational programs are related to three teaching occupational groups, resulting in 24 “related” matches. There are two other related matches, between Counselling services and personal development and University teaching and Other teaching. There is one “somewhat related” match, between Counselling and Elementary and secondary school teaching. There are no partial matches in this example.

Notes specific to each match have been added throughout the tables, particularly to explain partial matches. Some titles have been shortened by excluding terms such as: “and related fields”, “occupations in”, and so on. For exact titles of all headings, refer to the published classifications.

## **References**

Employment and Immigration Canada and Statistics Canada. *The Class of 86*. 1992.

Statistics Canada. *Human Resource Challenges of Education, Computers and Retirement*. General Social Survey Analysis Series No. 7, Catalogue No. 11-612, 1992.

Statistics Canada. *Major Fields of Study of Postsecondary Graduates*. Catalogue No. 93-329, 1993.

Statistics Canada. *Standard Occupational Classification, 1980*. Catalogue No. 12-565, 1981.

## **APPENDIX 1**

### **ABOUT THE STANDARD CLASSIFICATIONS**

Detailed and comprehensive standard classifications for both occupations and postsecondary education programs exist on which to base a linkage table or matrix between the two variables.

The *1980 Standard Occupational Classification* (Catalogue No. 12-565) contains approximately 500 different groupings at the most detailed, four-digit unit group level. It also has aggregations at the three-digit minor group level and two-digit major group level. They are referred to in this paper as "major" (or broad) and "minor" (or medium) levels of detail respectively.

The basic principle of classification in the SOC is that of "kind of work performed". Occupations are therefore identified and grouped primarily in terms of the work usually performed, this being determined by the tasks, duties, and responsibilities of the occupation. Factors such as the materials processed or used, the equipment used, the degree of responsibility and complexity of work, the products made and services provided, have been taken as indicators of the work performed when combining jobs into occupations and occupations into groups.

Thus, within each group the occupations are almost unique and related to each other by similarity of kind of work performed. This approach to the grouping of occupations ensures a certain homogeneity within groups and permits a distinction between groups.

In its processing, SLID codes occupation descriptions at the unit group level, then derives the major and minor levels as well (which can be done directly using the unit group code). The proposed table presents certain major group categories

together, reducing them from 21 to 12 distinct categories in the summary tables. This has no effect on their treatment in the table since the medium level was used to establish related matches.

The Census publication *Major Fields of Study of Post-Secondary Graduates* (Catalogue No. 93-329), referred to in this paper as MFS, contains 480 fields of study at the most detailed level. The major field of study classification has been adapted from two educational classification systems utilized in Statistics Canada. The first is the University Student Information System (USIS) which, in turn is based upon the International Standard Classification of Education (ISCED). The second is the Community College Student Information System (CCSIS) which was especially constructed to classify students and graduates from college and trades institutions and programs.

The detailed list of “major field of study” codes are reproduced in SLID Research Paper No. 95-02, *SLID coding structure: Major field of study for postsecondary graduates*. The MFS also has major and minor group aggregations, listed in 95-02 with corresponding code ranges. The headings allow for straightforward recoding at the minor and major levels. At the broad level, the MFS has 10 educational categories. Similar to the treatment of occupational variables, SLID codes the major field of study to the most detailed level, then derives the major and minor group codes.

## **APPENDIX 2**

### **QUESTIONS FROM THE GSS AND THE NGS ON THE RELATIONSHIP BETWEEN JOB AND EDUCATION**

#### **The General Social Survey**

The fourth annual cycle of the General Social Survey, which collected data during January and February 1989, concentrated on work and education. The questions about the relationship between job and education were:

- 1) "How closely is your job related to your education?"
- 2) "What level of education is normally required for people who do your type of work?"
- 3) "Considering your experience, education and training, do you feel that you are overqualified for your job?"

These questions applied to the employed population 15 years of age and over in 1989. From the first question it was found that: "In the work force, 36% of the employed had jobs which were closely related to their education. For about one in five, their jobs were somewhat related to their education, while 43% reported no relationship in this regard."

#### **The National Graduates Survey**

In June 1984 and May 1988, this survey interviewed graduates of 1982 and 1986 respectively. Graduates were asked if:

- 1) their program was intended to prepare them for a specific job or career;

- 2) the job they had in June 1984 or May 1988 was one for which their educational program was designed; and
- 3) they used any of the skills they acquired in their education program in their current job.

From the combined responses to these questions, the current job was categorized as: direct, partial and no relationship to education. The percentage of full-time workers in jobs directly related to their education was 63% for 1986 graduates of both trade/vocational and career/technical programs. The percentage for 1986 university graduates was 48%.



**APPENDIX 3: SUMMMARY TABLES**

**A: BY SOC GROUPS**

**Major group code and heading**

**Number and type of matches**

Related Partial Somewhat Partial & somewhat

**SOC: 01 Managerial administrative and related**

MFS: All

Not defined (see section 5.1)

**SOC: 02 Natural sciences, engineering and mathematics**

|  |    |   |    |    |
|--|----|---|----|----|
| MFS: 01 Educational, recreational and counselling services | -  | 1 | -  | -  |
| 04 Social sciences and related                             | -  | 1 | -  | -  |
| 06 Agricultural and biological sciences/technologies       | -  | - | -  | 10 |
| 07 Engineering and applied sciences                        | 24 | - | 2  | -  |
| 08 Engineering and applied science technologies and trades | -  | - | -  | 36 |
| 09 Health professions, sciences and technologies           | -  | - | 16 | -  |
| 10 Mathematics and physical sciences                       | 11 | - | 22 | -  |

**SOC: 03 Social sciences and related fields**

|  |   |   |   |   |
|--|---|---|---|---|
| MFS: 01 Educational, recreational and counselling services | 1 | 2 | - | - |
| 03 Humanities and related                                  | 1 | - | - | - |
| 04 Social sciences and related                             | 4 | 4 | 4 | 7 |
| 09 Health professions, sciences and technologies           | - | - | 1 | - |
| 10 Mathematics and physical sciences                       | - | - | 2 | - |

**SOC: 04 Religion**

|                                |   |   |   |   |
|--------------------------------|---|---|---|---|
| MFS: 03 Humanities and related | 1 | - | - | - |
|--------------------------------|---|---|---|---|

**SOC: 05 Teaching**

|  |    |   |   |   |
|--|----|---|---|---|
| MFS: 01 Educational, recreational and counselling services | 26 | - | 1 | - |
| 02 Fine and applied arts                                   | 14 | - | - | - |
| 03 Humanities and related                                  | 20 | - | - | - |
| 04 Social sciences and related                             | 26 | - | - | - |
| 05 Commerce, management and business administration        | 12 | - | - | - |
| 06 Agricultural and biological sciences/technologies       | 22 | - | - | - |
| 07 Engineering and applied sciences                        | 28 | - | - | - |
| 08 Engineering and applied science technologies and trades | 24 | - | - | - |
| 09 Health professions, sciences and technologies           | 32 | - | - | - |
| 10 Mathematics and physical sciences                       | 22 | - | - | - |

**SOC: 06 Medicine and health**

|   |    |   |   |   |
|---|----|---|---|---|
| MFS: 06 Agricultural and biological sciences/technologies | -  | - | - | 6 |
| 09 Health professions, sciences and technologies          | 48 | - | - | - |

**SOC: 07 Artistic, literary, recreational**

|                               |   |   |   |   |
|-------------------------------|---|---|---|---|
| MFS: 02 Fine and applied arts | 8 | - | 2 | - |
| 03 Humanities and related     | - | - | 7 | - |

**SOC: 08-10 Clerical; Sales; Service**

|  |   |   |   |   |
|--|---|---|---|---|
| MFS: 02 Fine and applied arts                            | - | 2 | - | - |
| 03 Humanities and related                                | 1 | - | - | - |
| 04 Social sciences and related                           | - | 1 | - | - |
| 05 Commerce, management and business administration      | - | 7 | 3 | 6 |
| 06 Agricultural and biological sciences/technologies     | - | 3 | - | - |
| 07 Engineering and applied sciences                      | - | - | 1 | - |
| 08 Engineering and applied science technologies & trades | 2 | - | 2 | - |

**SOC: 11 Farming, horticultural and animal husbandry**

|   |   |   |    |   |
|---|---|---|----|---|
| MFS: 06 Agricultural and biological sciences/technologies | 6 | - | 12 | - |
|---|---|---|----|---|

**SOC: 12-13 Fishing, trapping; Forestry and logging**

|   |   |   |   |   |
|---|---|---|---|---|
| MFS: 06 Agricultural and biological sciences/technologies | - | - | - | 2 |
|---|---|---|---|---|

|                                     |   |   |   |   |
|-------------------------------------|---|---|---|---|
| 07 Engineering and applied sciences | - | - | 1 | - |
|-------------------------------------|---|---|---|---|

|  |   |   |   |   |
|--|---|---|---|---|
| 08 Engineering and applied science technologies & trades | - | - | 2 | - |
|--|---|---|---|---|

**SOC: 14 Mining and quarrying including oil and gas field occupations**

|  |   |   |   |   |
|--|---|---|---|---|
| MFS: 07 Engineering and applied sciences | - | - | 1 | - |
|--|---|---|---|---|

|  |   |   |   |   |
|--|---|---|---|---|
| 08 Engineering and applied science technologies & trades | - | 4 | - | - |
|--|---|---|---|---|

**SOC: 15-21 Processing; ...Other crafts and equipment operating**

|                               |   |   |   |   |
|-------------------------------|---|---|---|---|
| MFS: 02 Fine and applied arts | - | 1 | - | - |
|-------------------------------|---|---|---|---|

|                           |   |   |   |   |
|---------------------------|---|---|---|---|
| 03 Humanities and related | - | - | - | 1 |
|---------------------------|---|---|---|---|

|  |   |   |   |   |
|--|---|---|---|---|
| 06 Agricultural and biological sciences/technologies | - | 3 | - | - |
|--|---|---|---|---|

|                                     |   |   |    |   |
|-------------------------------------|---|---|----|---|
| 07 Engineering and applied sciences | - | - | 20 | - |
|-------------------------------------|---|---|----|---|

|  |   |    |   |   |
|--|---|----|---|---|
| 08 Engineering and applied science technologies and trades | 9 | 58 | - | - |
|--|---|----|---|---|

**B: BY MFS GROUPS**

**Major group code and heading**

**Number and type of matches**

|   | Related | Partial | Somewhat | Partial & somewhat |
|---|---------|---------|----------|--------------------|
| <b>MFS: 01 Educational, recreational and counselling services</b> |         |         |          |                    |
| SOC: 02 Natural sciences, engineering and mathematics             | -       | 1       | -        | -                  |
| 03 Social sciences and related fields                             | 1       | 2       | -        | -                  |
| 05 Teaching   | 26      | -       | 1        | -                  |
| <b>MFS: 02 Fine and applied arts</b>                              |         |         |          |                    |
| SOC: 05 Teaching  | 14      | -       | -        | -                  |
| 07 Artistic, literary, recreational                               | 8       | -       | 2        | -                  |
| 08-10 Clerical; Sales; Service                                    | -       | 2       | -        | -                  |
| 15-21 Processing; ...Other crafts and equip. operating            | -       | 1       | -        | -                  |
| <b>MFS: 03 Humanities and related</b>                             |         |         |          |                    |
| SOC: 03 Social sciences and related fields                        | 1       | -       | -        | -                  |
| 04 Religion   | 1       | -       | -        | -                  |
| 05 Teaching   | 20      | -       | -        | -                  |
| 07 Artistic, literary, recreational                               | -       | -       | 7        | -                  |
| 08-10 Clerical; Sales; Service                                    | 1       | -       | -        | -                  |
| 15-21 Processing; ...Other crafts and equip. operating            | -       | -       | -        | 1                  |
| <b>MFS: 04 Social sciences and related</b>                        |         |         |          |                    |
| SOC: 02 Natural sciences, engineering and mathematics             | -       | 1       | -        | -                  |
| 03 Social sciences and related fields                             | 4       | 4       | 4        | 7                  |
| 05 Teaching   | 26      | -       | -        | -                  |
| 08-10 Clerical; Sales; Service                                    | -       | 1       | -        | -                  |

**MFS: 05 Commerce, management and business administration**

|                                |    |   |   |   |
|--------------------------------|----|---|---|---|
| SOC: 05 Teaching               | 12 | - | - | - |
| 08-10 Clerical; Sales; Service | -  | 7 | 3 | 6 |

**MFS: 06 Agricultural, biological sciences/technologies**

|  |    |   |    |    |
|--|----|---|----|----|
| SOC: 02 Natural sciences, engineering and mathematics  | -  | - | -  | 10 |
| 05 Teaching  | 22 | - | -  | -  |
| 06 Medicine and health                                 | -  | - | -  | 6  |
| 08-10 Clerical; Sales; Service                         | -  | 3 | -  | -  |
| 11 Farming, horticultural and animal husbandry         | 6  | - | 12 | -  |
| 12-13 Fishing, trapping; Forestry and logging          | -  | - | -  | 2  |
| 15-21 Processing; ...Other crafts and equip. operating | -  | 3 | -  | -  |

**MFS: 07 Engineering and applied sciences**

|   |    |   |    |   |
|---|----|---|----|---|
| SOC: 02 Natural sciences, engineering and mathematics     | 24 | - | 2  | - |
| 05 Teaching   | 28 | - | -  | - |
| 08-10 Clerical; Sales; Service                            | -  | - | 1  | - |
| 12-13 Fishing, trapping; Forestry and logging             | -  | - | 1  | - |
| 14 Mining and quarrying incl. oil & gas field occupations | -  | - | 1  | - |
| 15-21 Processing; ...Other crafts and equip. operating    | -  | - | 20 | - |

**MFS: 08 Engineering and applied science technologies and trades**

|   |    |    |   |    |
|---|----|----|---|----|
| SOC: 02 Natural sciences, engineering and mathematics     | -  | -  | - | 36 |
| 05 Teaching   | 24 | -  | - | -  |
| 08-10 Clerical; Sales; Service                            | 2  | -  | 2 | -  |
| 12-13 Fishing, trapping; Forestry and logging             | -  | -  | 2 | -  |
| 14 Mining and quarrying incl. oil & gas field occupations | -  | 4  | - | -  |
| 15-21 Processing; ...Other crafts and equip. operating    | 9  | 58 | - | -  |

**MFS: 09 Health profession, sciences and technologies**

|   |    |   |    |   |
|---|----|---|----|---|
| SOC: 02 Natural sciences, engineering and mathematics | -  | - | 16 | - |
| 03 Social sciences and related fields                 | -  | - | 1  | - |
| 05 Teaching   | 32 | - | -  | - |
| 06 Medicine and health                                | 48 | - | -  | - |

**MFS: 10 Mathematics and physical sciences**

|   |    |   |    |   |
|---|----|---|----|---|
| SOC: 02 Natural sciences, engineering and mathematics | 11 | - | 22 | - |
| 03 Social sciences and related fields                 | -  | - | 2  | - |
| 05 Teaching   | 22 | - | -  | - |

**MFS: ALL**

|         |                               |  |  |  |
|---------|-------------------------------|--|--|--|
| SOC: 01 | Not defined (see section 5.1) |  |  |  |
|---------|-------------------------------|--|--|--|

APPENDIX 4: CORRESPONDENCE BETWEEN  
OCCUPATIONS AND FIELDS OF STUDY

Includes:

- A: By Standard Occupational Classification groups (SOC)
- B: By Major Field of Study groups (MFS)

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|   |         |           |   |         |         |
|---|---------|-----------|---|---------|---------|
| 01  | 001-003 | 1111-1179 | All   |         |         |
| Managerial, administrative and related                                  |         |           |   |         |         |
| No relationship defined for managerial occupations<br>(see section 5.1) |         |           |   |         |         |
| 02  | 004-008 | 2111-2189 | 01  | 001-009 | 001-046 |
| Natural sciences, engineering and mathematics                           |         |           | Educational, recreational and counselling services          |         |         |
| Partial match   |         |           |   |         |         |
| 005 Life sciences   |         |           | 007 Physical education, health and recreation               |         |         |
| 02  | 004-008 | 2111-2189 | 04  | 027-039 | 125-187 |
| Natural sciences, engineering and mathematics                           |         |           | Social sciences and related                                 |         |         |
| Partial match   |         |           |   |         |         |
| 004 Physical sciences   |         |           | 028 Archeology  |         |         |
| 02  | 004-008 | 2111-2189 | 06  | 046-056 | 221-266 |
| Natural sciences, engineering and mathematics                           |         |           | Agricultural and biological sciences/technologies           |         |         |
| Partial match and somewhat related                                      |         |           |   |         |         |
| 005 Life sciences   |         |           | 046 Agricultural science                                    |         |         |
| Notes: includes Agriculturalists and Biologists                         |         |           | 047 Agricultural technology                                 |         |         |
|   |         |           | 048 Animal science technologies                             |         |         |
|   |         |           | 049 Biochemistry  |         |         |
|   |         |           | 050 Biology   |         |         |
|   |         |           | 051 Biophysics  |         |         |
|   |         |           | 052 Botany  |         |         |
|   |         |           | 054 Veterinary medicine/science                             |         |         |
|   |         |           | 055 Zoology   |         |         |
|   |         |           | 056 Other agricultural and biological sciences/technologies |         |         |
|   |         |           | Notes: 053 Household science and related fields excluded    |         |         |

A: CORRESPONDENCE BY SOC GROUPS



| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|   |         |           |  |         |         |
|---|---------|-----------|--|---------|---------|
| 02  | 004-008 | 2111-2189 | 07   | 057-070 | 267-301 |
| Natural sciences, engineering and mathematics   |         |           | Engineering and applied sciences   |         |         |
| Related   |         |           |  |         |         |
| 006 Architects, engineers and community planners<br>007 Other occup. in architecture and engineering  |         |           | 057 Architecture and architectural engineering<br>058 Aeronautical and aerospace engineering<br>059 Biological and chemical engineering<br>060 Civil engineering<br>061 Design/systems engineering<br>062 Electrical/electronic engineering<br>063 Industrial engineering<br>064 Mechanical engineering<br>065 Mining, metallurgical and petroleum engineering<br>066 Resources and environmental engineering<br>067 Engineering science<br>068 Engineering, n.e.c.  |         |         |
| Somewhat related  |         |           |  |         |         |
| 005 Life sciences   |         |           | 069 Forestry   |         |         |
| 007 Other occup. in architecture and engineering  |         |           | 070 Landscape architecture   |         |         |
| 02  | 004-008 | 2111-2189 | 08   | 071-082 | 302-369 |
| Natural sciences, engineering and mathematics   |         |           | Engineering and applied science technologies and trades  |         |         |
| Partial match and somewhat related  |         |           |  |         |         |
| 006 Architects, engineers and community planners<br>007 Other occup. In architecture and engineering<br>008 Occ. In mathematics, statistics, systems analysis |         |           | 071 Architectural technology<br>072 Chemical technology<br>073 Building technologies<br>074 Data processing and computer science technologies<br>075 Electronic and electrical technologies<br>076 Environmental and conservation technologies<br>077 General and civil engineering technologies<br>078 Industrial engineering technologies<br>079 Mechanical engineering technologies<br>080 Primary industries/resource processing technology<br>081 Transportation technologies<br>082 Other engineering/applied science technologies, n.e.c. |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|   |         |           |  |         |         |
|---|---------|-----------|--|---------|---------|
| 02  | 004-008 | 2111-2189 | 09   | 083-098 | 370-441 |
| Natural sciences, engineering and mathematics |         |           | Health professions, sciences and technologies  |         |         |
| Somewhat related                              |         |           |  |         |         |
| 005 Life sciences                             |         |           | 083 Dentistry<br>084 Medicine - general<br>085 Medicine - basic medical science<br>086 Medical specializations (non-surgical)<br>087 Paraclinical sciences<br>088 Surgery and surgical specializations<br>089 Nursing<br>090 Nursing assistance<br>091 Optometry<br>092 Pharmacy and pharmaceutical sciences<br>093 Public health<br>094 Rehabilitation medicine<br>095 Medical laboratory and diagnostic technology<br>096 Medical treatment technologies<br>097 Medical equipment and prosthetics<br>098 Other health professions, sciences and technologies, n.e.c. |         |         |
| 02  | 004-008 | 2111-2189 | 10   | 099-109 | 442-480 |
| Natural sciences, engineering and mathematics |         |           | Mathematics and physical sciences  |         |         |
| Related                                       |         |           |  |         |         |
| 004 Physical sciences                         |         |           | 101 Chemistry<br>102 Geology<br>105 Metallurgy and materials<br>106 Meteorology<br>107 Oceanography and marine sciences<br>108 Physics<br>109 General science  |         |         |
| 008 Mathematical statistics, systems analysis |         |           | 099 Actuarial science<br>100 Applied mathematics<br>103 Mathematical statistics<br>104 Mathematics   |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

| Somewhat related                                 |         |           |  |         |         |
|--|---------|-----------|--|---------|---------|
| 005 Life sciences                                |         |           | 101 Chemistry<br>102 Geology<br>105 Metallurgy and materials<br>106 Meteorology<br>107 Oceanography and marine sciences<br>108 Physics<br>109 General science  |         |         |
| 006 Architects, engineers and community planners |         |           | 100 Applied mathematics<br>101 Chemistry<br>102 Geology<br>103 Mathematical statistics<br>104 Mathematics<br>105 Metallurgy and materials<br>106 Meteorology<br>107 Oceanography and marine sciences<br>108 Physics<br>109 General science |         |         |
| 007 Other occ. In architecture and engineering   |         |           | 100 Applied mathematics<br>103 Mathematical statistics<br>104 Mathematics<br>105 Metallurgy and materials<br>109 General science   |         |         |
| 03   | 009-013 | 2311-2399 | 01   | 001-009 | 001-046 |
| Social sciences and related fields               |         |           | Educational, recreational and counselling services   |         |         |
| Related  |         |           |  |         |         |
| 010 Social work                                  |         |           | 008 Counselling services and personal development  |         |         |
| Partial match                                    |         |           |  |         |         |
| 009 Social sciences<br>013 Other                 |         |           | 008 Counselling services and personal development  |         |         |
| 03   | 009-013 | 2311-2399 | 03   | 017-026 | 080-124 |
| Social sciences                                  |         |           | Humanities and related   |         |         |
| Related  |         |           |  |         |         |
| 012 Library, museum and archival sciences        |         |           | 019 Library and records science  |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|   |         |           |   |         |         |
|---|---------|-----------|---|---------|---------|
| 03  | 009-013 | 2311-2399 | 04  | 027-039 | 125-187 |
| Social sciences   |         |           | Social sciences and related   |         |         |
| Related   |         |           |   |         |         |
| 010 Social work   |         |           | 035 Psychology<br>036 Sociology<br>037 Social work and social services  |         |         |
| 011 Law and jurisprudence   |         |           | 032 Law and jurisprudence   |         |         |
| Partial match   |         |           |   |         |         |
| 009 Social sciences<br>Notes: includes Economists, Sociologists, anthropologists and related social scientists, and Psychologists |         |           | 027 Anthropology<br>030 Economics<br>035 Psychology<br>036 Sociology  |         |         |
| Somewhat related  |         |           |   |         |         |
| 010 Social work   |         |           | 039 Other social sciences   |         |         |
| 013 Other occupations in social sciences  |         |           | 034 Political science<br>037 Social work and social services<br>039 Other social sciences   |         |         |
| Partial match; somewhat related   |         |           |   |         |         |
| 009 Social sciences<br>Notes: includes Economists, Sociologists, anthropologists and related social scientists, and Psychologists |         |           | 028 Archeology<br>029 Area studies<br>031 Geography<br>033 Man/Environment studies<br>034 Political science<br>037 Social work and social services<br>039 Other social sciences |         |         |
| 03  | 009-013 | 2311-2399 | 09  | 083-098 | 370-441 |
| Social sciences   |         |           | Health professions, sciences and technologies   |         |         |
| Somewhat related  |         |           |   |         |         |
| 010 Social work   |         |           | 093 Public health   |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|   |         |           |   |         |         |
|---|---------|-----------|---|---------|---------|
| 03  | 009-013 | 2311-2399 | 10  | 099-109 | 442-480 |
| Social sciences   |         |           | Mathematics and physical sciences   |         |         |
| Somewhat related  |         |           |   |         |         |
| 009 Social sciences   |         |           | 103 Mathematical statistics<br>104 Mathematics  |         |         |
| 04  | 014     | 2511-2519 | 03  | 017-026 | 080-124 |
| Religion  |         |           | Humanities and related  |         |         |
| Related   |         |           |   |         |         |
| 014 Religion  |         |           | 025 Religious studies   |         |         |
| 05  | 015-017 | 2711-2799 | 01  | 001-009 | 001-046 |
| Teaching  |         |           | Educational, recreational and counselling services  |         |         |
| Related   |         |           |   |         |         |
| 015 University teaching<br>016 Elementary and secondary school teaching<br>017 Other teaching |         |           | 001 Education-General<br>002 Elementary-Primary education<br>003 Secondary education (basic)<br>004 Secondary education (specialized)<br>005 Special education<br>006 Non-teaching educational fields<br>007 Physical education, health and recreation<br>009 Other education |         |         |
| 015 University teaching<br>017 Other teaching   |         |           | 008 Counselling services and personal development   |         |         |
| Somewhat related  |         |           |   |         |         |
| 016 Elementary and secondary school teaching  |         |           | 008 Counselling services and personal development   |         |         |
| 05  | 015-017 | 2711-2799 | 02  | 010-016 | 047-079 |
| Teaching  |         |           | Fine and applied arts   |         |         |
| Related   |         |           |   |         |         |
| 015 University teaching<br>017 Other teaching   |         |           | 010 Fine arts<br>011 Music<br>012 Other performing arts<br>013 Commercial and promotional arts<br>014 Graphic and audio-visual arts<br>015 Creative and design arts<br>016 Other applied arts   |         |         |
| Notes: includes Fine arts teachers, n.e.c., the only place Fine arts teachers appears.        |         |           |   |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|   |         |           |   |         |         |
|---|---------|-----------|---|---------|---------|
| 05<br>Teaching  | 015-017 | 2711-2799 | 03<br>Humanities and related  | 017-026 | 080-124 |
| Related   |         |           |   |         |         |
| 015 University teaching<br>017 Other teaching<br><br>Notes: 017 includes Community college and vocational school teachers |         |           | 017 Classics, classical and dead languages<br>018 History<br>019 Library and records science<br>020 Mass media studies<br>021 English language and literature<br>022 French language and literature<br>023 Other languages and literature<br>024 Philosophy<br>025 Religious studies<br>026 Other humanities and related fields                                       |         |         |
| 05<br>Teaching  | 015-017 | 2711-2799 | 04<br>Social sciences and related   | 027-039 | 125-187 |
| Related   |         |           |   |         |         |
| 015 University teaching<br>017 Other teaching<br><br>Notes: 017 includes Community college and vocational school teachers |         |           | 027 Anthropology<br>028 Archeology<br>029 Area studies (non-languages or literature)<br>030 Economics<br>031 Geography<br>032 Law and jurisprudence<br>033 Man/environment studies<br>034 Political science<br>035 Psychology<br>036 Sociology<br>037 Social work and social services<br>038 War and military studies<br>039 Other social sciences and related fields |         |         |
| 05<br>Teaching  | 015-017 | 2711-2799 | 05<br>Commerce, management and business administration  | 040-045 | 188-220 |
| Related   |         |           |   |         |         |
| 015 University teaching<br>017 Other teaching   |         |           | 040 Business and commerce<br>041 Financial management<br>042 Industrial management and administration<br>043 Institutional management and administration<br>044 Marketing, merchandising, retailing and sales<br>045 Secretarial science - General  |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|   |         |           |   |         |         |
|---|---------|-----------|---|---------|---------|
| 05  | 015-017 | 2711-2799 | 06  | 046-056 | 221-266 |
| Teaching                                      |         |           | Agricultural and biological sciences/technologies   |         |         |
| Related                                       |         |           |   |         |         |
| 015 University teaching<br>017 Other teaching |         |           | 046 Agricultural science<br>047 Agricultural technology<br>048 Animal science technologies<br>049 Biochemistry<br>050 Biology<br>051 Biophysics<br>052 Botany<br>053 Household science<br>054 Veterinary medicine/science<br>055 Zoology<br>056 Other agricultural and biological sciences/technologies   |         |         |
| 05  | 015-017 | 2711-2799 | 07  | 057-070 | 267-301 |
| Teaching                                      |         |           | Engineering and applied sciences  |         |         |
| Related                                       |         |           |   |         |         |
| 015 University teaching<br>017 Other teaching |         |           | 057 Architecture and architectural engineering<br>058 Aeronautical and aerospace engineering<br>059 Biological and chemical engineering<br>060 Civil engineering<br>061 Design/systems engineering<br>062 Electrical/electronic engineering<br>063 Industrial engineering<br>064 Mechanical engineering<br>065 Mining, metallurgical and petroleum engineering<br>066 Resources and environmental engineering<br>067 Engineering science<br>068 Engineering, n.e.c.<br>069 Forestry<br>070 Landscape architecture |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|   |         |           |  |         |         |
|---|---------|-----------|--|---------|---------|
| 05<br>Teaching                                | 015-017 | 2711-2799 | 08<br>Engineering and applied science technologies and trades  | 071-082 | 302-369 |
| Related                                       |         |           |  |         |         |
| 015 University teaching<br>017 Other teaching |         |           | 071 Architectural technology<br>072 Chemical technology<br>073 Building technologies<br>074 Data processing and computer science technologies<br>075 Electronic and electrical technologies<br>076 Environmental and conservation technologies<br>077 General and civil engineering technologies<br>078 Industrial engineering technologies<br>079 Mechanical engineering technologies<br>080 Primary industries/resource processing technology<br>081 Transportation technologies<br>082 Other engineering/applied science technologies, n.e.c.                       |         |         |
| 05<br>Teaching                                | 015-017 | 2711-2799 | 09<br>Health professions, sciences and technologies  | 083-098 | 370-441 |
| Related                                       |         |           |  |         |         |
| 015 University teaching<br>017 Other teaching |         |           | 083 Dentistry<br>084 Medicine - general<br>085 Medicine - basic medical science<br>086 Medical specializations (non-surgical)<br>087 Paraclinical sciences<br>088 Surgery and surgical specializations<br>089 Nursing<br>090 Nursing assistance<br>091 Optometry<br>092 Pharmacy and pharmaceutical sciences<br>093 Public health<br>094 Rehabilitation medicine<br>095 Medical laboratory and diagnostic technology<br>096 Medical treatment technologies<br>097 Medical equipment and prosthetics<br>098 Other health professions, sciences and technologies, n.e.c. |         |         |

A: CORRESPONDENCE BY SOC GROUPS



| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|  |         |           |  |         |         |
|--|---------|-----------|--|---------|---------|
| 05   | 015-017 | 2711-2799 | 10   | 099-109 | 442-480 |
| Teaching   |         |           | Mathematics and physical sciences  |         |         |
| Related  |         |           |  |         |         |
| 015 University teaching<br>017 Other teaching  |         |           | 099 Actuarial science<br>100 Applied mathematics<br>101 Chemistry<br>102 Geology<br>103 Mathematical statistics<br>104 Mathematics<br>105 Metallurgy and materials<br>106 Meteorology<br>107 Oceanography and marine sciences<br>108 Physics<br>109 General science  |         |         |
| 06   | 018-020 | 3111-3169 | 06   | 046-056 | 221-266 |
| Medicine and health  |         |           | Agricultural and biological sciences/technologies  |         |         |
| Partial match and somewhat related   |         |           |  |         |         |
| 018 Health diagnosing and treating occupations<br><br>Notes: includes Veterinarians as well as Physicians and Dentists |         |           | 046 Agricultural science<br>048 Animal science technologies<br>049 Biochemistry<br>050 Biology<br>051 Biophysics<br>054 Veterinary medicine/science<br><br>Notes: 046 includes Animal science; 056 Other agricultural and biological science/technologies is excluded because the frequency is only high on Food processing technologies |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|   |         |           |  |         |         |
|---|---------|-----------|--|---------|---------|
| 06  | 018-020 | 3111-3169 | 09   | 083-098 | 370-441 |
| Medicine and health   |         |           | Health professions, sciences and technologies  |         |         |
| Related   |         |           |  |         |         |
| 018 Health diagnosing and treating<br>019 Nursing, therapy and related assisting<br>020 Other occup. in medicine and health |         |           | 083 Dentistry<br>084 Medicine - general<br>085 Medicine - basic medical science<br>086 Medical specializations (non-surgical)<br>087 Paraclinical sciences<br>088 Surgery and surgical specializations<br>089 Nursing<br>090 Nursing assistance<br>091 Optometry<br>092 Pharmacy and pharmaceutical sciences<br>093 Public health<br>094 Rehabilitation medicine<br>095 Medical laboratory and diagnostic technology<br>096 Medical treatment technologies<br>097 Medical equipment and prosthetics<br>098 Other health professions, sciences and technologies, n.e.c. |         |         |
| 07  | 021-024 | 3311-3379 | 02   | 010-016 | 047-079 |
| Artistic, literary, recreational  |         |           | Fine and applied arts  |         |         |
| Related   |         |           |  |         |         |
| 021 Fine and commercial art, photography and related fields   |         |           | 010 Fine arts<br>013 Commercial and promotional arts<br>014 Graphic and audio-visual arts<br>015 Creative and design arts  |         |         |
| 022 Performing and audio-visual arts  |         |           | 011 Music<br>012 Other performing arts<br>013 Commercial and promotional arts<br>014 Graphic and audio-visual arts   |         |         |
| Somewhat related  |         |           |  |         |         |
| 022 Performing and audio-visual arts  |         |           | 010 Fine arts  |         |         |
| 021 Fine and commercial art, photography and related fields   |         |           | 012 Other performing arts  |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|   |         |           |   |         |         |
|---|---------|-----------|---|---------|---------|
| 07  | 021-024 | 3311-3379 | 03  | 017-026 | 080-124 |
| Artistic, literary, recreational  |         |           | Humanities and related  |         |         |
| Somewhat related  |         |           |   |         |         |
| 021 Fine and commercial art, photography<br>022 Performing and audio-visual arts  |         |           | 020 Mass media studies  |         |         |
| 023 Writing   |         |           | 021 English language and literature<br>022 French language and literature<br>023 Other languages and literature<br>024 Philosophy<br>026 Other humanities and related fields  |         |         |
| 08-10   | 025-040 | 4110-6199 | 02  | 010-016 | 047-079 |
| Clerical<br>Sales<br>Service  |         |           | Fine and applied arts   |         |         |
| Partial match   |         |           |   |         |         |
| 038 Personal service occupations<br>039 Apparel and furnishings service occupations<br><br>Notes: 038 includes Barbers, hairdressers and<br>039 includes Apparel and furnishings service<br>occupations |         |           | 016 Other applied arts<br><br>Notes: includes Barbering, Beauty culture and<br>cosmetology, Hairdressing, Upholstery and<br>furniture and Applied arts--repair and renovation |         |         |
| 08-10   | 025-040 | 4110-6199 | 03  | 017-026 | 080-124 |
| Clerical<br>Sales<br>Service  |         |           | Humanities and related  |         |         |
| Related   |         |           |   |         |         |
| 029 Library, file and correspondence clerks   |         |           | 019 Library and records science   |         |         |
| 08-10   | 025-040 | 4110-8199 | 04  | 027-039 | 125-187 |
| Clerical<br>Sales<br>Service  |         |           | Social sciences and related   |         |         |
| Partial match   |         |           |   |         |         |
| 035 Protective service occupations  |         |           | 037 Social work and social services<br><br>Notes: includes Police and para-legal<br>technologies and Protection services  |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|   |         |           |   |         |         |
|---|---------|-----------|---|---------|---------|
| 08-10<br>Clerical<br>Sales<br>Service   | 025-040 | 4110-6199 | 05<br>Commerce, management and business<br>administration   | 040-045 | 188-220 |
| Partial match   |         |           |   |         |         |
| 027 Office machine and electronic data-processing equipment operators   |         |           | 045 Secretarial science--general fields<br><br>Notes: includes Business machines operations and Word processing but also Office accounting/Book-keeping and Legal or Medical secretary, etc.  |         |         |
| 029 Library, file and correspondence clerks<br>030 Reception, information, mail and message distribution<br>031 Other clerical and related  |         |           | 045 Secretarial science--general fields   |         |         |
| 036 Food and beverage preparation<br>037 Lodging and other accommodation<br>038 Personal service<br><br>Notes: 038 includes Funeral directors and embalmers and Housekeepers  |         |           | 043 Institutional management and administration<br><br>Notes: includes Health care and services management, Hotel and food administration, Funeral directors and embalming, and Tourism and resort management   |         |         |
| Somewhat related  |         |           |   |         |         |
| 032 Sales occupations, commodities<br>033 Sales occupations, services<br>034 Other sales occupations<br><br>Notes: These categories cover many jobs which most likely do not require a postsecondary degree, e.g. Sales clerks and salespersons, Service station attendants and Route drivers |         |           | 044 Marketing, merchandising, retailing and sales   |         |         |
| Partial match and somewhat related  |         |           |   |         |         |
| 026 Book-keeping, account-recording<br><br>Notes: includes Cashiers and tellers   |         |           | 040 Business and commerce<br>041 Financial management<br>042 Industrial management and administration<br>043 Institutional management and administration<br>044 Marketing, merchandising, retailing and sales<br>045 Secretarial science--general fields<br><br>Notes: 045 includes Word processing, which has a high frequency |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification  |             |            | 1991 Census Major Field of Study   |             |            |
|--|-------------|------------|--|-------------|------------|
| Major group  | Minor group | Unit group | Major group  | Minor group | Unit group |
| 08-10<br>Clerical<br>Sales<br>Service  | 025-040     | 4110-6199  | 06<br>Agricultural and biological sciences/technologies  | 046-056     | 221-266    |
| Partial match  |             |            |  |             |            |
| 036 Food and beverage preparation<br>038 Personal service<br>039 Apparel and furnishings service<br>Notes: 038 includes Housekeepers, servants |             |            | 053 Household science and related fields<br>Notes: includes Household and domestic science, Clothing and textiles, Food nutrition, etc., and Food services and preparation |             |            |
| 08-10<br>Clerical<br>Sales<br>Service  | 025-040     | 4110-6199  | 07<br>Engineering and applied sciences   | 057-070     | 267-301    |
| Somewhat related   |             |            |  |             |            |
| 027 Office machine and electronic data processing equipment operators  |             |            | 062 Electrical/electronic engineering  |             |            |
| 08-10<br>Clerical<br>Sales<br>Service  | 025-040     | 4110-6199  | 08<br>Engineering and applied science technologies and trades  | 071-082     | 302-369    |
| Related  |             |            |  |             |            |
| 027 Office machine and electronic data processing equipment  |             |            | 074 Data processing and computer science technologies<br>075 Electronic and electrical technologies  |             |            |
| Somewhat related   |             |            |  |             |            |
| 027 Office machine and electronic data processing equipment  |             |            | 079 Mechanical engineering technologies<br>082 Other engineering/applied science technologies  |             |            |
| 11<br>Farming, horticultural and animal husbandry  | 041-042     | 7113-7199  | 06<br>Agricultural and biological sciences/technologies  | 046-056     | 221-266    |
| Related  |             |            |  |             |            |
| 041 Farmers<br>042 Other farming, horticultural and animal husbandry   |             |            | 046 Agricultural science<br>047 Agricultural technology<br>048 Animal science technologies   |             |            |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

| Somewhat related  |         |           |  |         |         |
|---|---------|-----------|--|---------|---------|
| 041 Farmers<br>042 Other farming, horticultural and animal husbandry              |         |           | 049 Biochemistry<br>050 Biology<br>051 Biophysics<br>052 Botany<br>054 Veterinary medicine/science<br>055 Zoology<br><br>Notes: 056 Other Agricultural and biological sciences/technologies is omitted because frequency was only high on Food processing technologies |         |         |
| 12-13   | 043-044 | 7311-7519 | 06   | 046-056 | 221-266 |
| Fishing, trapping<br>Forestry and logging   |         |           | Agricultural and biological sciences/technologies  |         |         |
| Partial match and somewhat related  |         |           |  |         |         |
| 043 Fishing, trapping   |         |           | 056 Other agricultural and biological sciences/technologies<br><br>Notes: includes Hunting and trapping  |         |         |
| 044 Forestry and logging<br><br>Notes: includes Forestry conservation occupations |         |           | 052 Botany   |         |         |
| 12-13   | 043-044 | 7311-7519 | 07   | 057-070 | 267-301 |
| Fishing, trapping<br>Forestry and logging   |         |           | Engineering and applied sciences   |         |         |
| Somewhat related  |         |           |  |         |         |
| 044 Forestry and logging<br><br>Notes: includes labouring                         |         |           | 069 Forestry<br><br>Notes: This is under sciences, not technologies and trades, so it is "somewhat" related rather than fully related  |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|  |         |           |  |         |         |
|--|---------|-----------|--|---------|---------|
| 12-13  | 043-044 | 7311-7519 | 08   | 071-082 | 302-369 |
| Fishing, trapping<br>Forestry and logging  |         |           | Engineering and applied science technologies<br>and trades   |         |         |
| Somewhat related   |         |           |  |         |         |
| 044 Forestry and logging   |         |           | 080 Primary industries/resource processing<br>technology<br>082 Other engineering/applied science<br>technologies, n.e.c.  |         |         |
| 14   | 045     | 7710-7719 | 07   | 057-070 | 267-301 |
| Mining and quarrying incl. oil & gas field occup.  |         |           | Engineering and applied sciences   |         |         |
| Somewhat related   |         |           |  |         |         |
| 045 Mining and quarrying including oil and gas<br>field occupations<br><br>Notes: includes labouring |         |           | 065 Mining, metallurgical and petroleum<br>engineering<br><br>Notes: as for 069 Forestry, above  |         |         |
| 14   | 045     | 7710-7719 | 08   | 071-082 | 302-369 |
| Mining and quarrying incl. oil & gas field occup.  |         |           | Engineering and applied science technologies<br>and trades   |         |         |
| Partial match  |         |           |  |         |         |
| 045 Mining and quarrying including oil and gas<br>field occup.                                       |         |           | 077 General and civil engineering technologies<br>079 Mechanical engineering technologies<br>080 Primary industries/resource processing<br>technologies<br>082 Other engineering/applied science<br>technologies, n.e.c. |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification  |             |            | 1991 Census Major Field of Study   |             |            |
|--|-------------|------------|--|-------------|------------|
| Major group  | Minor group | Unit group | Major group  | Minor group | Unit group |
| 15-21<br>Processing<br>Machining<br>Product fabricating, assembling and repairing<br>Construction trades<br>Transport equipment operating<br>Material handling, n.e.c.<br>Other crafts and equipment operating | 046-079     | 8110-9599  | 02<br>Fine and applied arts  | 010-016     | 047-079    |
| Partial match  |             |            |  |             |            |
| 063 Fabricating, assembling and repairing occupations: textile, fur and leather products   |             |            | 016 Other applied arts<br><br>Notes: includes Upholstery and furniture and Applied arts--repair and renovation       |             |            |
| 15-21<br>Processing<br>Machining<br>Product fabricating, assembling and repairing<br>Construction trades<br>Transport equipment operating<br>Material handling, n.e.c.<br>Other crafts and equipment operating | 046-079     | 8110-9599  | 03<br>Humanities and related   | 017-026     | 080-124    |
| Partial match; somewhat related  |             |            |  |             |            |
| 079 Other crafts and equipment operating occup, n.e.c.<br><br>Notes: includes Photographic processing  |             |            | 020 Mass media studies   |             |            |
| 15-21<br>Processing<br>Machining<br>Product fabricating, assembling and repairing<br>Construction trades<br>Transport equipment operating<br>Material handling, n.e.c.<br>Other crafts and equipment operating | 046-079     | 8110-9599  | 06<br>Agricultural and biological sciences/technologies  | 046-056     | 221-266    |
| Partial match  |             |            |  |             |            |
| 050 Food, beverage and related processing<br>053 Textile processing<br>063 Fabricating, assembling and repairing: textile, fur and leather products  |             |            | 053 Household science<br><br>Notes: includes Clothing and textiles, Food nutrition and Food services and preparation |             |            |

A: CORRESPONDENCE BY SOC GROUPS



| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|   |         |           |   |         |         |
|---|---------|-----------|---|---------|---------|
| 15-21<br>Processing<br>Machining<br>Product fabricating, assembling and repairing<br>Construction trades<br>Transport equipment operating<br>Material handling, n.e.c.<br>Other crafts and equipment operating  | 046-079 | 8110-9599 | 07<br>Engineering and applied sciences              | 057-070 | 267-301 |
| Somewhat related  |         |           |   |         |         |
| 049 Chemicals, petroleum, rubber, plastic materials processing<br>064 Fabricating, assembling and repairing occ.: rubber, plastic products  |         |           | 059 Biological and chemical engineering             |         |         |
| 067 Excavating, grading, paving<br>069 Other construction trades  |         |           | 060 Civil engineering                               |         |         |
| 061 Fabricating, assembling, installing and repairing: electrical, electronic equipment<br>068 Electrical power, lighting and wire communications equipment, erecting, installing and repairing<br>078 Electronic communications equipment operating  |         |           | 062 Electrical/electronic engineering               |         |         |
| 047 Metal processing<br>055 Metal machining<br>056 Metal shaping and forming, except machining  |         |           | 063 Industrial engineering                          |         |         |
| 060 Fabricating and assembling occup.: metal products, n.e.c.<br>064 Fabricating, assembling and repairing occ.: rubber, plastic products<br>065 Mechanics and repairers, n.e.c.<br>070 Transport equipment operating<br>071 Railway transport operating<br>072 Water transport operating<br>074 Other transport equipment operating<br>077 Stationary engine and utilities equipment operating |         |           | 064 Mechanical engineering                          |         |         |
| 046 Mineral ore treating<br>049 Chemicals, petroleum, rubber, plastic materials processing  |         |           | 065 Mining, metallurgical and petroleum engineering |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|  |         |           |   |         |         |
|--|---------|-----------|---|---------|---------|
| 15-21<br>Processing<br>Machining<br>Product fabricating, assembling and repairing<br>Construction trades<br>Transport equipment operating<br>Material handling, n.e.c.<br>Other crafts and equipment operating | 046-079 | 8110-9599 | 08<br>Engineering and applied science technologies<br>and trades  | 071-082 | 302-369 |
| Related  |         |           |   |         |         |
| 049 Chemical, petroleum, rubber, plastic materials processing  |         |           | 072 Chemical technology   |         |         |
| 068 Electrical power, lighting and wire communications equipment erecting, installing and repairing  |         |           | 075 Electronic and electrical technologies  |         |         |
| 069 Other construction trades  |         |           | 073 Building technologies   |         |         |
| 070 Air transport operating<br>071 Railway transport operating<br>072 Water transport operating<br>073 Motor transport operating<br>074 Other transport operating  |         |           | 081 Transportation technologies   |         |         |
| 078 Electronic communications equipment operating  |         |           | 075 Electronic and electrical technologies  |         |         |
| Partial match  |         |           |   |         |         |
| 046 Mineral ore treating<br><br>Notes: includes Crushing and grinding, Mixing, separating, filtering, etc.   |         |           | 079 Mechanical engineering technologies<br>080 Primary industries/resource processing technology  |         |         |
| 047 Metal processing   |         |           | 078 Industrial engineering technologies<br>080 Primary industries/resource processing technologies<br><br>Notes: 080 includes Mining and metal processing |         |         |
| 048 Clay, glass and stone processing, forming  |         |           | 080 Primary industries/resource processing technologies   |         |         |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|   |   |
|---|---|
| 051 Wood processing occup. except pulp and paper making<br>052 Pulp and paper making  | 080 Primary industries/resource processing technologies   |
| 053 Textile processing  | 078 Industrial engineering technologies<br>Notes: includes Clothing/fabric, Pattern making, Power sewing  |
| 055 Metal machining<br>056 Metal shaping and forming, except machining  | 078 Industrial engineering technologies<br>080 Primary industries/resource processing technologies<br>Notes: 078 includes Sheet metal; 080 includes Mining and metal processing |
| 057 Wood machining<br>058 Clay, glass, stone materials machining  | 080 Primary industries/resource processing technologies<br>Notes: includes Forest products technology   |
| 059 Other machining, n.e.c.   | 078 Industrial engineering technologies<br>080 Primary industries/resource processing technologies  |
| 060 Fabricating and assembling: metal products, n.e.c.<br>061 Fabricating, assembling, installing and repairing occup.: Electrical and electronic equipment | 078 Industrial engineering technologies<br>079 Mechanical engineering technologies  |
| 062 Fabricating, assembling and repairing: wood products  | 073 Building technologies   |
| 063 Fabricating, assembling and repairing: textile, fur and leather<br>064 Fabricating, assembling and repairing: rubber, plastic                           | 072 Chemical technology   |
| 065 Mechanics and repairers, n.e.c.   | 078 Industrial engineering technologies<br>079 Mechanical engineering technologies  |
| 077 Stationary engine and utilities equipment operating   | 079 Mechanical engineering technologies   |
| 067 Excavating, grading, paving   | 077 General and civil engineering technologies  |

A: CORRESPONDENCE BY SOC GROUPS

| 1980 Standard Occupational Classification |             |            | 1991 Census Major Field of Study |             |            |
|---|-------------|------------|----------------------------------|-------------|------------|
| Major group                               | Minor group | Unit group | Major group                      | Minor group | Unit group |

|  |  |
|--|--|
| <p>046 Mineral oil treating<br/>           047 Metal processing<br/>           048 Clay, glass and stone processing, forming<br/>           049 Chemicals, petroleum, rubber, plastic materials processing<br/>           050 Food, beverage processing<br/>           051 Wood processing, except pulp and paper making<br/>           052 Pulp and paper making<br/>           053 Textile processing<br/>           054 Other processing<br/>           055 Metal machining<br/>           056 Metal shaping and forming, except machining<br/>           057 Wood machining<br/>           058 Clay, glass, stone materials machining<br/>           059 Other machining, n.e.c.<br/>           060 Fabricating and assembling: metal products, n.e.c.<br/>           061 Fabricating, assembling, installing and repairing: electrical, electronic equipment<br/>           062 Fabricating, assembling and repairing: wood products<br/>           063 Fabricating, assembling and repairing: textile, fur and leather products<br/>           064 Fabricating, assembling and repairing: rubber, plastic products<br/>           065 Mechanics and repairers, n.e.c.<br/>           066 Other product fabricating, assembling and repairing<br/>           067 Excavating, grading, paving<br/>           068 Electrical power, lighting and wire communications equipment erecting, installing and repairing<br/>           069 Other construction trades<br/>           070 Air transport operating<br/>           071 Railway transport operating<br/>           072 Water transport operating<br/>           073 Motor transport operating<br/>           074 Other transport equipment operating<br/>           077 Stationary engine and utilities equipment operating<br/>           078 Electronic communications equipment operating</p> | <p>082 Other engineering/applied science technologies, n.e.c.</p> <p>Notes: This received a high frequency, so a partial match with most occupations in the SOC group may be better than no match.</p> |
|--|--|



| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|   |         |         |   |         |           |
|---|---------|---------|---|---------|-----------|
| 01  | 001-009 | 001-046 | 02  | 004-008 | 2111-2189 |
| Educational, recreational and counselling services  |         |         | Natural sciences, engineering and mathematics   |         |           |
| Partial match   |         |         |   |         |           |
| 007 Physical education, health and recreation   |         |         | 005 Life sciences   |         |           |
| 01  | 001-009 | 001-046 | 03  | 009-013 | 2311-2399 |
| Educational, recreational and counselling services  |         |         | Social sciences and related fields  |         |           |
| Related   |         |         |   |         |           |
| 008 Counselling services and personal development   |         |         | 010 Social work   |         |           |
| Partial match   |         |         |   |         |           |
| 008 Counselling services and personal development   |         |         | 009 Social sciences<br>013 Other  |         |           |
| 01  | 001-009 | 001-046 | 05  | 015-017 | 2711-2799 |
| Educational, recreational and counselling services  |         |         | Teaching  |         |           |
| Related   |         |         |   |         |           |
| 001 Education-General<br>002 Elementary-Primary education<br>003 Secondary education (basic)<br>004 Secondary education (specialized)<br>005 Special education<br>006 Non-teaching educational fields<br>007 Physical education, health and recreation<br>009 Other education |         |         | 015 University teaching<br>016 Elementary and secondary school teaching<br>017 Other teaching |         |           |
| 008 Counselling services and personal development   |         |         | 015 University teaching<br>017 Other teaching   |         |           |
| Somewhat related  |         |         |   |         |           |
| 008 Counselling services and personal development   |         |         | 016 Elementary and secondary school teaching  |         |           |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|   |         |         |   |         |           |
|---|---------|---------|---|---------|-----------|
| 02  | 010-016 | 047-079 | 05  | 015-017 | 2711-2799 |
| Fine and applied arts   |         |         | Teaching  |         |           |
| Related   |         |         |   |         |           |
| 010 Fine arts<br>011 Music<br>012 Other performing arts<br>013 Commercial and promotional arts<br>014 Graphic and audio-visual arts<br>015 Creative and design arts<br>016 Other applied arts |         |         | 015 University teaching<br>017 Other teaching<br><br>Notes: 017 includes Community college and vocational school teachers and Fine arts teachers, n.e.c.  |         |           |
| 02  | 010-016 | 047-079 | 07  | 021-024 | 3311-3379 |
| Fine and applied arts   |         |         | Artistic, literary, recreational  |         |           |
| Related   |         |         |   |         |           |
| 010 Fine arts<br>013 Commercial and promotional arts<br>014 Graphic and audio-visual arts<br>015 Creative and design arts   |         |         | 021 Fine and commercial art, photography and related fields   |         |           |
| 011 Music<br>012 Other performing arts<br>013 Commercial and promotional arts<br>014 Graphic and audio-visual arts  |         |         | 022 Performing and audio-visual arts  |         |           |
| Somewhat related  |         |         |   |         |           |
| 010 Fine arts   |         |         | 022 Performing and audio-visual arts  |         |           |
| 012 Other performing arts   |         |         | 021 Fine and commercial art, photography and related fields   |         |           |
| 02  | 010-016 | 047-079 | 08-10   | 025-040 | 4110-6199 |
| Fine and applied arts   |         |         | Clerical<br>Sales<br>Service  |         |           |
| Partial match   |         |         |   |         |           |
| 016 Other applied arts<br><br>Notes: includes Barbering, Beauty culture and cosmetology, Hairdressing, Upholstery and furniture and Applied arts--repair and renovation                       |         |         | 038 Personal service occupations<br>039 Apparel and furnishings service occupations<br><br>Notes: 038 includes Barbers, hairdressers and 039 includes Apparel and furnishings service occupations |         |           |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|  |         |         |   |         |           |
|--|---------|---------|---|---------|-----------|
| 02   | 010-016 | 047-079 | 15-21   | 046-079 | 8110-9599 |
| Fine and applied arts  |         |         | Processing<br>Machining<br>Product fabricating, assembling and repairing<br>Construction trades<br>Transport equipment operating<br>Material handling, n.e.c.<br>Other crafts and equipment operating |         |           |
| Partial match  |         |         |   |         |           |
| 016 Other applied arts   |         |         | 063 Fabricating, assembling and repairing occupations: textile, fur and leather products  |         |           |
| Notes: includes Upholstery and furniture and Applied arts--repair and renovation |         |         |   |         |           |
| 03   | 017-026 | 080-124 | 03  | 009-013 | 2311-2399 |
| Humanities and related   |         |         | Social sciences   |         |           |
| Related  |         |         |   |         |           |
| 019 Library and records science  |         |         | 012 Library, museum and archival sciences   |         |           |
| 03   | 017-026 | 080-124 | 04  | 014     | 2511-2519 |
| Humanities and related   |         |         | Religion  |         |           |
| Related  |         |         |   |         |           |
| 025 Religious studies  |         |         | 014 Religion  |         |           |
| 03   | 017-026 | 080-124 | 05  | 015-017 | 2711-2799 |
| Humanities and related   |         |         | Teaching  |         |           |
| Related  |         |         |   |         |           |
| 017 Classics, classical and dead languages                                       |         |         | 015 University teaching   |         |           |
| 018 History  |         |         | 017 Other teaching  |         |           |
| 019 Library and records science  |         |         | Notes: 017 includes Community college and vocational school teachers  |         |           |
| 020 Mass media studies   |         |         |   |         |           |
| 021 English language and literature  |         |         |   |         |           |
| 022 French language and literature   |         |         |   |         |           |
| 023 Other languages and literature   |         |         |   |         |           |
| 024 Philosophy   |         |         |   |         |           |
| 025 Religious studies  |         |         |   |         |           |
| 026 Other humanities and related fields  |         |         |   |         |           |

B: CORRESPONDENCE BY MFS GROUPS



| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|  |         |         |   |         |           |
|--|---------|---------|---|---------|-----------|
| 03   | 017-026 | 080-124 | 07  | 021-024 | 3311-3379 |
| Humanities and related   |         |         | Artistic, literary, recreational  |         |           |
| Somewhat related   |         |         |   |         |           |
| 020 Mass media studies   |         |         | 021 Fine and commercial art, photography<br>022 Performing and audio-visual arts  |         |           |
| 021 English language and literature<br>022 French language and literature<br>023 Other languages and literature<br>024 Philosophy<br>026 Other humanities and related fields |         |         | 023 Writing   |         |           |
| 03   | 017-026 | 080-124 | 08-10   | 025-040 | 4110-6199 |
| Humanities and related   |         |         | Clerical<br>Sales<br>Service  |         |           |
| Related  |         |         |   |         |           |
| 019 Library and records science  |         |         | 029 Library, file and correspondence clerks   |         |           |
| 03   | 017-026 | 080-124 | 15-21   | 046-079 | 8110-9599 |
| Humanities and related   |         |         | Processing<br>Machining<br>Product fabricating, assembling and repairing<br>Construction trades<br>Transport equipment operating<br>Material handling, n.e.c.<br>Other crafts and equipment operating |         |           |
| Partial match; somewhat related  |         |         |   |         |           |
| 020 Mass media studies   |         |         | 079 Other crafts and equipment operating occup,<br>n.e.c.<br><br>Notes: includes Photographic processing  |         |           |
| 04   | 027-039 | 125-187 | 02  | 004-008 | 2111-2189 |
| Social sciences and related  |         |         | Natural sciences, engineering and mathematics   |         |           |
| Partial match  |         |         |   |         |           |
| 028 Archeology   |         |         | 004 Physical sciences   |         |           |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|   |         |         |   |         |           |
|---|---------|---------|---|---------|-----------|
| 04  | 027-039 | 125-187 | 03  | 009-013 | 2311-2399 |
| Social sciences and related   |         |         | Social sciences   |         |           |
| Related   |         |         |   |         |           |
| 035 Psychology<br>036 Sociology<br>037 Social work and social services  |         |         | 010 Social work   |         |           |
| 032 Law and jurisprudence   |         |         | 011 Law and jurisprudence   |         |           |
| Partial match   |         |         |   |         |           |
| 027 Anthropology<br>030 Economics<br>035 Psychology<br>036 Sociology  |         |         | 009 Social sciences<br><br>Notes: includes Economists, Sociologists, anthropologists and related social scientists, and Psychologists |         |           |
| Somewhat related  |         |         |   |         |           |
| 039 Other social sciences   |         |         | 010 Social work   |         |           |
| 034 Political science<br>037 Social work and social services<br>039 Other social sciences   |         |         | 013 Other occupations in social sciences  |         |           |
| Partial match; somewhat related   |         |         |   |         |           |
| 028 Archeology<br>029 Area studies<br>031 Geography<br>033 Man/Environment studies<br>034 Political science<br>037 Social work and social services<br>039 Other social sciences |         |         | 009 Social sciences<br><br>Notes: includes Economists, Sociologists, anthropologists and related social scientists, and Psychologists |         |           |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|   |         |         |   |         |           |
|---|---------|---------|---|---------|-----------|
| 04  | 027-039 | 125-187 | 05  | 015-017 | 2711-2799 |
| Social sciences and related   |         |         | Teaching  |         |           |
| Related   |         |         |   |         |           |
| 027 Anthropology<br>028 Archeology<br>029 Area studies (non-languages or literature)<br>030 Economics<br>031 Geography<br>032 Law and jurisprudence<br>033 Man/environment studies<br>034 Political science<br>035 Psychology<br>036 Sociology<br>037 Social work and social services<br>038 War and military studies<br>039 Other social sciences and related fields |         |         | 015 University teaching<br>017 Other teaching<br><br>Notes: 017 includes Community college and vocational school teachers |         |           |
| 04  | 027-039 | 125-187 | 08-10   | 025-040 | 4110-8199 |
| Social sciences and related   |         |         | Clerical<br>Sales<br>Service  |         |           |
| Partial match   |         |         |   |         |           |
| 037 Social work and social services   |         |         | 035 Protective service occupations  |         |           |
| Notes: includes Police and para-legal technologies and Protection services  |         |         |   |         |           |
| 05  | 040-045 | 188-220 | 05  | 015-017 | 2711-2799 |
| Commerce, management and business administration  |         |         | Teaching  |         |           |
| Related   |         |         |   |         |           |
| 040 Business and commerce<br>041 Financial management<br>042 Industrial management and administration<br>043 Institutional management and administration<br>044 Marketing, merchandising, retailing and sales<br>045 Secretarial science - General  |         |         | 015 University teaching<br>017 Other teaching   |         |           |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|   |         |         |  |         |           |
|---|---------|---------|--|---------|-----------|
| 05<br>Commerce, management and business administration  | 040-045 | 188-220 | 08-10<br>Clerical<br>Sales<br>Service  | 025-040 | 4110-6199 |
| Partial match   |         |         |  |         |           |
| 045 Secretarial science--general fields<br><br>Notes: includes Business machines operations and Word processing but also Office accounting/Book-keeping and Legal or Medical secretary, etc.  |         |         | 027 Office machine and electronic data-processing equipment operators  |         |           |
| 045 Secretarial science--general fields   |         |         | 029 Library, file and correspondence clerks<br>030 Reception, information, mail and message distribution<br>031 Other clerical and related   |         |           |
| 043 Institutional management and administration<br><br>Notes: includes Health care and services management, Hotel and food administration, Funeral directors and embalming, and Tourism and resort management   |         |         | 036 Food and beverage preparation<br>037 Lodging and other accommodation<br>038 Personal service<br><br>Notes: 038 includes Funeral directors and embalmers and Housekeepers   |         |           |
| Somewhat related  |         |         |  |         |           |
| 044 Marketing, merchandising, retailing and sales   |         |         | 032 Sales occupations, commodities<br>033 Sales occupations, services<br>034 Other sales occupations<br><br>Notes: These categories cover many jobs which most likely do not require a post-secondary degree, e.g. Sales clerks and salespersons, Service station attendants and Route drivers |         |           |
| Partial match and somewhat related  |         |         |  |         |           |
| 040 Business and commerce<br>041 Financial management<br>042 Industrial management and administration<br>043 Institutional management and administration<br>044 Marketing, merchandising, retailing and sales<br>045 Secretarial science--general fields<br><br>Notes: 045 includes Word processing, which has a high frequency |         |         | 026 Book-keeping, account-recording<br><br>Notes: includes Cashiers and tellers  |         |           |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|  |         |         |  |         |           |
|--|---------|---------|--|---------|-----------|
| 06   | 046-056 | 221-266 | 02   | 004-008 | 2111-2189 |
| Agricultural and biological sciences/technologies  |         |         | Natural sciences, engineering and mathematics                            |         |           |
| Partial match and somewhat related   |         |         |  |         |           |
| 046 Agricultural science<br>047 Agricultural technology<br>048 Animal science technologies<br>049 Biochemistry<br>050 Biology<br>051 Biophysics<br>052 Botany<br>054 Veterinary medicine/science<br>055 Zoology<br>056 Other agricultural and biological sciences/technologies<br><br>Notes: 053 Household science and related fields excluded |         |         | 005 Life sciences<br><br>Notes: includes Agriculturalists and Biologists |         |           |
| 06   | 046-056 | 221-266 | 05   | 015-017 | 2711-2799 |
| Agricultural and biological sciences/technologies  |         |         | Teaching   |         |           |
| Related  |         |         |  |         |           |
| 046 Agricultural science<br>047 Agricultural technology<br>048 Animal science technologies<br>049 Biochemistry<br>050 Biology<br>051 Biophysics<br>052 Botany<br>053 Household science<br>054 Veterinary medicine/science<br>055 Zoology<br>056 Other agricultural and biological sciences/technologies  |         |         | 015 University teaching<br>017 Other teaching                            |         |           |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study   |             |            | 1980 Standard Occupational Classification  |             |            |
|--|-------------|------------|--|-------------|------------|
| Major group  | Minor group | Unit group | Major group  | Minor group | Unit group |
| 06   | 046-056     | 221-266    | 06   | 018-020     | 3111-3169  |
| Agricultural and biological sciences/technologies  |             |            | Medicine and health  |             |            |
| Partial match and somewhat related   |             |            |  |             |            |
| 046 Agricultural science<br>048 Animal science technologies<br>049 Biochemistry<br>050 Biology<br>051 Biophysics<br>054 Veterinary medicine/science<br><br>Notes: 046 includes Animal science; 056 Other agricultural and biological science/technologies is excluded because the frequency is only high on Food processing technologies |             |            | 018 Health diagnosing and treating occupations<br><br>Notes: includes Veterinarians as well as Physicians and Dentists                             |             |            |
| 06   | 046-056     | 221-266    | 08-10  | 025-040     | 4110-6199  |
| Agricultural and biological sciences/technologies  |             |            | Clerical<br>Sales<br>Service   |             |            |
| Partial match  |             |            |  |             |            |
| 053 Household science and related fields<br><br>Notes: includes Household and domestic science, Clothing and textiles, Food nutrition, etc., and Food services and preparation   |             |            | 036 Food and beverage preparation<br>038 Personal service<br>039 Apparel and furnishings service<br><br>Notes: 038 includes Housekeepers, servants |             |            |
| 06   | 046-056     | 221-266    | 11   | 041-042     | 7113-7199  |
| Agricultural and biological sciences/technologies  |             |            | Farming, horticultural and animal husbandry  |             |            |
| Related  |             |            |  |             |            |
| 046 Agricultural science<br>047 Agricultural technology<br>048 Animal science technologies   |             |            | 041 Farmers<br>042 Other farming, horticultural and animal husbandry   |             |            |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

| Somewhat related   |         |         |   |         |           |
|--|---------|---------|---|---------|-----------|
| 049 Biochemistry<br>050 Biology<br>051 Biophysics<br>052 Botany<br>054 Veterinary medicine/science<br>055 Zoology<br><br>Notes: 056 Other Agricultural and biological sciences/technologies is omitted because frequency was only high on Food processing technologies |         |         | 041 Farmers<br>042 Other farming, horticultural and animal husbandry  |         |           |
| 06   | 046-056 | 221-266 | 12-13   | 043-044 | 7311-7519 |
| Agricultural and biological sciences/technologies  |         |         | Fishing, trapping<br>Forestry and logging   |         |           |
| Partial match and somewhat related   |         |         |   |         |           |
| 056 Other agricultural and biological sciences/technologies<br><br>Notes: includes Hunting and trapping  |         |         | 043 Fishing, trapping   |         |           |
| 052 Botany   |         |         | 044 Forestry and logging  |         |           |
|  |         |         | Notes: includes Forestry conservation occupations   |         |           |
| 06   | 046-056 | 221-266 | 15-21   | 046-079 | 8110-9599 |
| Agricultural and biological sciences/technologies  |         |         | Processing<br>Machining<br>Product fabricating, assembling and repairing<br>Construction trades<br>Transport equipment operating<br>Material handling, n.e.c.<br>Other crafts and equipment operating |         |           |
| Partial match  |         |         |   |         |           |
| 053 Household science<br><br>Notes: includes Clothing and textiles, Food nutrition and Food services and preparation   |         |         | 050 Food, beverage and related processing<br>053 Textile processing<br>063 Fabricating, assembling and repairing: textile, fur and leather products   |         |           |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|   |         |         |  |         |           |
|---|---------|---------|--|---------|-----------|
| 07  | 057-070 | 267-301 | 02   | 004-008 | 2111-2189 |
| Engineering and applied sciences  |         |         | Natural sciences, engineering and mathematics  |         |           |
| Related   |         |         |  |         |           |
| 057 Architecture and architectural engineering<br>058 Aeronautical and aerospace engineering<br>059 Biological and chemical engineering<br>060 Civil engineering<br>061 Design/systems engineering<br>062 Electrical/electronic engineering<br>063 Industrial engineering<br>064 Mechanical engineering<br>065 Mining, metallurgical and petroleum engineering<br>066 Resources and environmental engineering<br>067 Engineering science<br>068 Engineering, n.e.c.   |         |         | 006 Architects, engineers and community planners<br>007 Other occup. in architecture and engineering |         |           |
| Somewhat related  |         |         |  |         |           |
| 069 Forestry  |         |         | 005 Life sciences  |         |           |
| 070 Landscape architecture  |         |         | 007 Other occup. in architecture and engineering   |         |           |
| 07  | 057-070 | 267-301 | 05   | 015-017 | 2711-2799 |
| Engineering and applied sciences  |         |         | Teaching   |         |           |
| Related   |         |         |  |         |           |
| 057 Architecture and architectural engineering<br>058 Aeronautical and aerospace engineering<br>059 Biological and chemical engineering<br>060 Civil engineering<br>061 Design/systems engineering<br>062 Electrical/electronic engineering<br>063 Industrial engineering<br>064 Mechanical engineering<br>065 Mining, metallurgical and petroleum engineering<br>066 Resources and environmental engineering<br>067 Engineering science<br>068 Engineering, n.e.c.<br>069 Forestry<br>070 Landscape architecture |         |         | 015 University teaching<br>017 Other teaching  |         |           |

B: CORRESPONDENCE BY MFS GROUPS



| 1991 Census Major Field of Study  |             |            | 1980 Standard Occupational Classification   |             |            |
|---|-------------|------------|---|-------------|------------|
| Major group   | Minor group | Unit group | Major group   | Minor group | Unit group |
| 07  | 057-070     | 267-301    | 08-10   | 025-040     | 4110-6199  |
| Engineering and applied sciences  |             |            | Clerical<br>Sales<br>Service  |             |            |
| Somewhat related  |             |            |   |             |            |
| 062 Electrical/electronic engineering   |             |            | 027 Office machine and electronic data processing equipment operators   |             |            |
| 07  | 057-070     | 267-301    | 12-13   | 043-044     | 7311-7519  |
| Engineering and applied sciences  |             |            | Fishing, trapping<br>Forestry and logging   |             |            |
| Somewhat related  |             |            |   |             |            |
| 069 Forestry  |             |            | 044 Forestry and logging  |             |            |
| Notes: This is under sciences, not technologies and trades, so it is "somewhat" related rather than fully related |             |            | Notes: includes labouring   |             |            |
| 07  | 057-070     | 267-301    | 14  | 045         | 7710-7719  |
| Engineering and applied sciences  |             |            | Mining and quarrying incl. oil & gas field occup.   |             |            |
| Somewhat related  |             |            |   |             |            |
| 065 Mining, metallurgical and petroleum engineering   |             |            | 045 Mining and quarrying including oil and gas field occupations  |             |            |
| Notes: as for 069 Forestry, above   |             |            | Notes: includes labouring   |             |            |
| 07  | 057-070     | 267-301    | 15-21   | 046-079     | 8110-9599  |
| Engineering and applied sciences  |             |            | Processing<br>Machining<br>Product fabricating, assembling and repairing<br>Construction trades<br>Transport equipment operating<br>Material handling, n.e.c.<br>Other crafts and equipment operating |             |            |
| Somewhat related  |             |            |   |             |            |
| 059 Biological and chemical engineering   |             |            | 049 Chemicals, petroleum, rubber, plastic materials processing<br>064 Fabricating, assembling and repairing occ.: rubber, plastic products  |             |            |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study |   |            | 1980 Standard Occupational Classification |  |            |
|----------------------------------|---|------------|---|--|------------|
| Major group                      | Minor group                                     | Unit group | Major group                               | Minor group  | Unit group |
| 060                              | Civil engineering                               |            | 067                                       | Excavating, grading, paving  |            |
|                                  |   |            | 069                                       | Other construction trades  |            |
| 062                              | Electrical/electronic engineering               |            | 061                                       | Fabricating, assembling, installing and repairing: electrical, electronic equipment              |            |
|                                  |   |            | 068                                       | Electrical power, lighting and wire communications equipment, erecting, installing and repairing |            |
|                                  |   |            | 078                                       | Electronic communications equipment operating  |            |
| 063                              | Industrial engineering                          |            | 047                                       | Metal processing   |            |
|                                  |   |            | 055                                       | Metal machining  |            |
|                                  |   |            | 056                                       | Metal shaping and forming, except machining  |            |
| 064                              | Mechanical engineering                          |            | 060                                       | Fabricating and assembling occup.: metal products, n.e.c.  |            |
|                                  |   |            | 064                                       | Fabricating, assembling and repairing occ.: rubber, plastic products                             |            |
|                                  |   |            | 065                                       | Mechanics and repairers, n.e.c.  |            |
|                                  |   |            | 070                                       | Transport equipment operating  |            |
|                                  |   |            | 071                                       | Railway transport operating  |            |
|                                  |   |            | 072                                       | Water transport operating  |            |
|                                  |   |            | 074                                       | Other transport equipment operating  |            |
|                                  |   |            | 077                                       | Stationary engine and utilities equipment operating  |            |
| 065                              | Mining, metallurgical and petroleum engineering |            | 046                                       | Mineral ore treating   |            |
|                                  |   |            | 049                                       | Chemicals, petroleum, rubber, plastic materials processing                                       |            |

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|  |         |         |   |         |           |
|--|---------|---------|---|---------|-----------|
| 08   | 071-082 | 302-369 | 02  | 004-008 | 2111-2189 |
| Engineering and applied science technologies and trades  |         |         | Natural sciences, engineering and mathematics   |         |           |
| Partial match and somewhat related   |         |         |   |         |           |
| 071 Architectural technology<br>072 Chemical technology<br>073 Building technologies<br>074 Data processing and computer science technologies<br>075 Electronic and electrical technologies<br>076 Environmental and conservation technologies<br>077 General and civil engineering technologies<br>078 Industrial engineering technologies<br>079 Mechanical engineering technologies<br>080 Primary industries/resource processing technology<br>081 Transportation technologies<br>082 Other engineering/applied science technologies, n.e.c. |         |         | 006 Architects, engineers and community planners<br>007 Other occup. In architecture and engineering<br>008 Occ. In mathematics, statistics, systems analysis |         |           |
| 08   | 071-082 | 302-369 | 05  | 015-017 | 2711-2799 |
| Engineering and applied science technologies and trades  |         |         | Teaching  |         |           |
| Related  |         |         |   |         |           |
| 071 Architectural technology<br>072 Chemical technology<br>073 Building technologies<br>074 Data processing and computer science technologies<br>075 Electronic and electrical technologies<br>076 Environmental and conservation technologies<br>077 General and civil engineering technologies<br>078 Industrial engineering technologies<br>079 Mechanical engineering technologies<br>080 Primary industries/resource processing technology<br>081 Transportation technologies<br>082 Other engineering/applied science technologies, n.e.c. |         |         | 015 University teaching<br>017 Other teaching   |         |           |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|  |         |         |   |         |           |
|--|---------|---------|---|---------|-----------|
| 08   | 071-082 | 302-369 | 08-10   | 025-040 | 4110-6199 |
| Engineering and applied science technologies and trades  |         |         | Clerical<br>Sales<br>Service                                |         |           |
| Related  |         |         |   |         |           |
| 074 Data processing and computer science technologies<br>075 Electronic and electrical technologies  |         |         | 027 Office machine and electronic data processing equipment |         |           |
| Somewhat related   |         |         |   |         |           |
| 079 Mechanical engineering technologies<br>082 Other engineering/applied science technologies  |         |         | 027 Office machine and electronic data processing equipment |         |           |
| 08   | 071-082 | 302-369 | 12-13   | 043-044 | 7311-7519 |
| Engineering and applied science technologies and trades  |         |         | Fishing, trapping<br>Forestry and logging                   |         |           |
| Somewhat related   |         |         |   |         |           |
| 080 Primary industries/resource processing technology<br>082 Other engineering/applied science technologies, n.e.c.  |         |         | 044 Forestry and logging                                    |         |           |
| 08   | 071-082 | 302-369 | 14  | 045     | 7710-7719 |
| Engineering and applied science technologies and trades  |         |         | Mining and quarrying incl. oil & gas field occup.           |         |           |
| Partial match  |         |         |   |         |           |
| 077 General and civil engineering technologies<br>079 Mechanical engineering technologies<br>080 Primary industries/resource processing technologies<br>082 Other engineering/applied science technologies, n.e.c. |         |         | 045 Mining and quarrying including oil and gas field occup. |         |           |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|   |         |         |   |         |           |
|---|---------|---------|---|---------|-----------|
| 08  | 071-082 | 302-369 | 15-21   | 046-079 | 8110-9599 |
| Engineering and applied science technologies and trades   |         |         | Processing<br>Machining<br>Product fabricating, assembling and repairing<br>Construction trades<br>Transport equipment operating<br>Material handling, n.e.c.<br>Other crafts and equipment operating |         |           |
| Related   |         |         |   |         |           |
| 072 Chemical technology   |         |         | 049 Chemical, petroleum, rubber, plastic materials processing   |         |           |
| 075 Electronic and electrical technologies  |         |         | 068 Electrical power, lighting and wire communications equipment erecting, installing and repairing   |         |           |
| 073 Building technologies   |         |         | 069 Other construction trades   |         |           |
| 081 Transportation technologies   |         |         | 070 Air transport operating<br>071 Railway transport operating<br>072 Water transport operating<br>073 Motor transport operating<br>074 Other transport operating                                     |         |           |
| 075 Electronic and electrical technologies  |         |         | 078 Electronic communications equipment operating   |         |           |
| Partial match   |         |         |   |         |           |
| 079 Mechanical engineering technologies<br>080 Primary industries/resource processing technology  |         |         | 046 Mineral ore treating<br><br>Notes: includes Crushing and grinding, Mixing, separating, filtering, etc.  |         |           |
| 078 Industrial engineering technologies<br>080 Primary industries/resource processing technologies<br><br>Notes: 080 includes Mining and metal processing |         |         | 047 Metal processing  |         |           |
| 080 Primary industries/resource processing technologies   |         |         | 048 Clay, glass and stone processing, forming   |         |           |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|   |  |  |   |  |  |
|---|--|--|---|--|--|
| 080 Primary industries/resource processing technologies   |  |  | 051 Wood processing occup. except pulp and paper making<br>052 Pulp and paper making  |  |  |
| 078 Industrial engineering technologies<br>Notes: includes Clothing/fabric, Pattern making, Power sewing  |  |  | 053 Textile processing  |  |  |
| 078 Industrial engineering technologies<br>080 Primary industries/resource processing technologies<br>Notes: 078 includes Sheet metal; 080 includes Mining and metal processing |  |  | 055 Metal machining<br>056 Metal shaping and forming, except machining  |  |  |
| 080 Primary industries/resource processing technologies<br>Notes: includes Forest products technology   |  |  | 057 Wood machining<br>058 Clay, glass, stone materials machining  |  |  |
| 078 Industrial engineering technologies<br>080 Primary industries/resource processing technologies  |  |  | 059 Other machining, n.e.c.   |  |  |
| 078 Industrial engineering technologies<br>079 Mechanical engineering technologies  |  |  | 060 Fabricating and assembling: metal products, n.e.c.<br>061 Fabricating, assembling, installing and repairing occup.: Electrical and electronic equipment |  |  |
| 073 Building technologies   |  |  | 062 Fabricating, assembling and repairing: wood products  |  |  |
| 072 Chemical technology   |  |  | 063 Fabricating, assembling and repairing: textile, fur and leather<br>064 Fabricating, assembling and repairing: rubber, plastic                           |  |  |
| 078 Industrial engineering technologies<br>079 Mechanical engineering technologies  |  |  | 065 Mechanics and repairers, n.e.c.   |  |  |
| 077 General and civil engineering technologies  |  |  | 067 Excavating, grading, paving   |  |  |
| 079 Mechanical engineering technologies   |  |  | 077 Stationary engine and utilities equipment operating   |  |  |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|  |  |
|--|--|
| <p>082 Other engineering/applied science technologies, n.e.c.</p> <p>Notes: This received a high frequency, so a partial match with most occupations in the SOC group may be better than no match.</p> | <p>046 Mineral oil treating</p> <p>047 Metal processing</p> <p>048 Clay, glass and stone processing, forming</p> <p>049 Chemicals, petroleum, rubber, plastic materials processing</p> <p>050 Food, beverage processing</p> <p>051 Wood processing, except pulp and paper making</p> <p>052 Pulp and paper making</p> <p>053 Textile processing</p> <p>054 Other processing</p> <p>055 Metal machining</p> <p>056 Metal shaping and forming, except machining</p> <p>057 Wood machining</p> <p>058 Clay, glass, stone materials machining</p> <p>059 Other machining, n.e.c.</p> <p>060 Fabricating and assembling: metal products, n.e.c.</p> <p>061 Fabricating, assembling, installing and repairing: electrical, electronic equipment</p> <p>062 Fabricating, assembling and repairing: wood products</p> <p>063 Fabricating, assembling and repairing: textile, fur and leather products</p> <p>064 Fabricating, assembling and repairing: rubber, plastic products</p> <p>065 Mechanics and repairers, n.e.c.</p> <p>066 Other product fabricating, assembling and repairing</p> <p>067 Excavating, grading, paving</p> <p>068 Electrical power, lighting and wire communications equipment erecting, installing and repairing</p> <p>069 Other construction trades</p> <p>070 Air transport operating</p> <p>071 Railway transport operating</p> <p>072 Water transport operating</p> <p>073 Motor transport operating</p> <p>074 Other transport equipment operating</p> <p>077 Stationary engine and utilities equipment operating</p> <p>078 Electronic communications equipment operating</p> |
|--|--|

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|  |         |         |   |         |           |
|--|---------|---------|---|---------|-----------|
| 09   | 083-098 | 370-441 | 02  | 004-008 | 2111-2189 |
| Health professions, sciences and technologies  |         |         | Natural sciences, engineering and mathematics |         |           |
| Somewhat related   |         |         |   |         |           |
| 083 Dentistry<br>084 Medicine - general<br>085 Medicine - basic medical science<br>086 Medical specializations (non-surgical)<br>087 Paraclinical sciences<br>088 Surgery and surgical specializations<br>089 Nursing<br>090 Nursing assistance<br>091 Optometry<br>092 Pharmacy and pharmaceutical sciences<br>093 Public health<br>094 Rehabilitation medicine<br>095 Medical laboratory and diagnostic technology<br>096 Medical treatment technologies<br>097 Medical equipment and prosthetics<br>098 Other health professions, sciences and technologies, n.e.c. |         |         | 002 Life sciences                             |         |           |
| 09   | 083-098 | 370-441 | 03  | 009-013 | 2311-2399 |
| Health professions, sciences and technologies  |         |         | Social sciences                               |         |           |
| Somewhat related   |         |         |   |         |           |
| 093 Public health  |         |         | 010 Social work                               |         |           |



| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|  |         |         |   |         |           |
|--|---------|---------|---|---------|-----------|
| 09   | 083-098 | 370-441 | 05  | 015-017 | 2711-2799 |
| Health professions, sciences and technologies  |         |         | Teaching  |         |           |
| Related  |         |         |   |         |           |
| 083 Dentistry<br>084 Medicine - general<br>085 Medicine - basic medical science<br>086 Medical specializations (non-surgical)<br>087 Paraclinical sciences<br>088 Surgery and surgical specializations<br>089 Nursing<br>090 Nursing assistance<br>091 Optometry<br>092 Pharmacy and pharmaceutical sciences<br>093 Public health<br>094 Rehabilitation medicine<br>095 Medical laboratory and diagnostic technology<br>096 Medical treatment technologies<br>097 Medical equipment and prosthetics<br>098 Other health professions, sciences and technologies, n.e.c. |         |         | 015 University teaching<br>017 Other teaching   |         |           |
| 09   | 083-098 | 370-441 | 06  | 018-020 | 3111-3169 |
| Health professions, sciences and technologies  |         |         | Medicine and health   |         |           |
| Related  |         |         |   |         |           |
| 083 Dentistry<br>084 Medicine - general<br>085 Medicine - basic medical science<br>086 Medical specializations (non-surgical)<br>087 Paraclinical sciences<br>088 Surgery and surgical specializations<br>089 Nursing<br>090 Nursing assistance<br>091 Optometry<br>092 Pharmacy and pharmaceutical sciences<br>093 Public health<br>094 Rehabilitation medicine<br>095 Medical laboratory and diagnostic technology<br>096 Medical treatment technologies<br>097 Medical equipment and prosthetics<br>098 Other health professions, sciences and technologies, n.e.c. |         |         | 018 Health diagnosing and treating<br>019 Nursing, therapy and related assisting<br>020 Other occup. in medicine and health |         |           |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study |             |            | 1980 Standard Occupational Classification |             |            |
|----------------------------------|-------------|------------|---|-------------|------------|
| Major group                      | Minor group | Unit group | Major group                               | Minor group | Unit group |

|  |         |         |  |         |           |
|--|---------|---------|--|---------|-----------|
| 10   | 099-109 | 442-480 | 02   | 004-008 | 2111-2189 |
| Mathematics and physical sciences  |         |         | Natural sciences, engineering and mathematics    |         |           |
| Related  |         |         |  |         |           |
| 101 Chemistry<br>102 Geology<br>105 Metallurgy and materials<br>106 Meteorology<br>107 Oceanography and marine sciences<br>108 Physics<br>109 General science  |         |         | 004 Physical sciences                            |         |           |
| 099 Actuarial science<br>100 Applied mathematics<br>103 Mathematical statistics<br>104 Mathematics   |         |         | 008 Mathematical statistics, systems analysis    |         |           |
| Somewhat related   |         |         |  |         |           |
| 101 Chemistry<br>102 Geology<br>105 Metallurgy and materials<br>106 Meteorology<br>107 Oceanography and marine sciences<br>108 Physics<br>109 General science  |         |         | 005 Life sciences                                |         |           |
| 100 Applied mathematics<br>101 Chemistry<br>102 Geology<br>103 Mathematical statistics<br>104 Mathematics<br>105 Metallurgy and materials<br>106 Meteorology<br>107 Oceanography and marine sciences<br>108 Physics<br>109 General science |         |         | 006 Architects, engineers and community planners |         |           |
| 100 Applied mathematics<br>103 Mathematical statistics<br>104 Mathematics<br>105 Metallurgy and materials<br>109 General science   |         |         | 007 Other occ. In architecture and engineering   |         |           |

B: CORRESPONDENCE BY MFS GROUPS

| 1991 Census Major Field of Study  |             |            | 1980 Standard Occupational Classification     |             |            |
|---|-------------|------------|---|-------------|------------|
| Major group   | Minor group | Unit group | Major group                                   | Minor group | Unit group |
| 10  | 099-109     | 442-480    | 03  | 009-013     | 2311-2399  |
| Mathematics and physical sciences   |             |            | Social sciences                               |             |            |
| Somewhat related  |             |            |   |             |            |
| 103 Mathematical statistics<br>104 Mathematics  |             |            | 009 Social sciences                           |             |            |
| 10  | 099-109     | 442-480    | 05  | 015-017     | 2711-2799  |
| Mathematics and physical sciences   |             |            | Teaching                                      |             |            |
| Related   |             |            |   |             |            |
| 099 Actuarial science<br>100 Applied mathematics<br>101 Chemistry<br>102 Geology<br>103 Mathematical statistics<br>104 Mathematics<br>105 Metallurgy and materials<br>106 Meteorology<br>107 Oceanography and marine sciences<br>108 Physics<br>109 General science |             |            | 015 University teaching<br>017 Other teaching |             |            |
| All   |             |            | 01  | 001-003     | 1111-1179  |
|   |             |            | Managerial, administrative and related        |             |            |
| No relationship defined for managerial occupations<br>(see section 5.1)   |             |            |   |             |            |

B: CORRESPONDENCE BY MFS GROUPS