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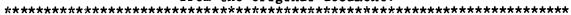|	
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ABSTRACT

      The International Standard Classification of Education (ISCED) was developed by the United Nations Educational, Scientific, and Cultural Organization in the 1960s and 1970s to be the recognized international standard for reporting and interpreting education program data. Creating a U.S. crosswalk to this system has been a goal of research conducted by the Office of Educational Research and Improvement that awaited the revision of the Classification of Instructional Programs (CIP) system. This publication contains a detailed discussion of the correspondence between U.S. education program databases and classification systems and the ISCED. It includes a crosswalk between ISCED and the 1990 CIP, and crosswalks between the ISCED and educational level classifications used in the Integrated Postsecondary Education Data System (IPEDS) and the Common Core of Data Survey (CCD), which collects data on primary and secondary education. The "Guide" also presents useful information on U.S. education program data. Technological and methodological considerations are discussed, and crosswalking data at various education levels are considered. An appendix of nearly 100 pages contains the master crosswalk of U.S. and ISCED codes. (SLD)

A GUIDE
TO THE

INTERNATIONAL
INTERPRETATION
OF
U.S. EDUCATION
PROGRAM
DATA

CIP, IPEDS, CCD AND ISCED

OFFICE *of*
RESEARCH
U S *Department of Education*
Office of Educational
Research and Improvement

ERIC

NATIONAL CENTER FOR EDUCATION STATISTICS

2

A GUIDE
TO THE

INTERNATIONAL
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OF

U.S. EDUCATION
PROGRAM
DATA

CIP, IPEDS, CCD AND ISCED

by

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National Center for Education Statistics

"The purpose of the Center shall be to collect, analyze, and disseminate statistics and other data related to education in the United States and in other nations."—Section 406(b) of the General Education Provisions Act, as amended (20 U.S.C. 1221e–1).

October 1993

Foreword

The International Standard Classification of Education, known by its acronym ISCED, was developed by the United Nations Educational, Scientific, and Cultural Organization during the late 1960s and 1970s. ISCED was implemented in 1976 and is the recognized international standard for reporting and interpreting education program data.

Creating a U.S. crosswalk to this system has been a goal of the National Center for Education Statistics and the Office of Research since the late 197s, when the National Institute of Education (the predecessor agency to the Office of Educational Research and Improvement) began exploring the idea. The design and implementation of a workable crosswalk, however, awaited the advent of changes to the Classification of Instructional Programs (CIP) system. The 1990 revision of the CIP system laid the foundation for a workable international crosswalk. Adoption of the National Education Goals set global consciousness and international educational comparisons firmly in place as important components of American educational policy and mission at the national level.

We believe that this product will enhance the accessibility and utility of American educational data to the world community. Educators, policymakers, statisticians, researchers, and the interested public will benefit from both the crosswalk itself and from the discussion of the U.S. educational system and data that accompany it. While ISCED may undergo changes and modifications in the future, this *Guide* is an important contribution to international educational research and data exchanges and lays a solid foundation for future developments.

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Acknowledgments

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Contents

Introduction[1]

A Guide to the International Interpretation of U.S. Education Program Data: CIP, IPEDS, CCD and ISCED presents the standard format used by the National Center for Education Statistics (NCES) to report U.S. education program data to international organizations and serves as a guideline for interpreting such data.

This publication contains a detailed discussion of the correspondence between U.S. education program databases and classification systems and the *International Standard Classification of Education (ISCED)*. It includes a crosswalk between ISCED and the *1990 Classification of Instructional Programs (CIP)*, the official U.S. education program classification system; and crosswalks between ISCED and the educational level classifications used in the principal U.S. national education databases, the *Integrated Postsecondary Education Data System (IPEDS)* which collects postsecondary data and the *Common Core of Data Survey (CCD)* which collects data on primary and secondary education. The *Guide* also presents useful information on the nature of U.S. education program data in relation to ISCED and to international comparisons based upon it.

The Importance of International Data Comparability

Several persuasive arguments can be made for insuring good international and comparative data. Among them are:

- to facilitate accurate data exchanges under extant treaties, agreements, and arrangements, both bilateral and multilateral;

- to help achieve the National Education Goals objectives of better and more extensive international comparisons of educational practices and achievement;

- to meet the challenge of the increasing global mobility of students of all ages, which means more Americans and foreigners holding credentials from one another's education systems;

- to provide users of U.S. education data, both in America and abroad, with effective means of comparing U.S. and foreign education data; and

- to provide a framework under which U.S. educators, policymakers,

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[1] The technical author of this guidebook and crosswalk is E. Stephen Hunt, a senior research analyst in the Higher Education and Adult Learning Division of the Office of Research, OERI. He is a co-author of the *Classification of Instructional Programs: 1990 Edition* (Washington: U.S. Government Printing Office, 1991).

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organizations, and the public can make informed decisions on international educational issues.

In addition to these general points, the U.S. National Education Goals mandate an increased concern with international and comparative education developments in order to support the reform and improvement of education in the United States and the preparedness of all Americans for participation in the global economy.

Most international education data reporting and analysis is based on the *International Standard Classification of Education (ISCED)*. ISCED was developed by the United Nations Education, Scientific and Cultural Organization (UNESCO) and was implemented in 1976. Since 1976, the ISCED system has been adopted universally as the taxonomic format for reporting international education data and is used by international organizations as well as individual countries. The Organization for Economic Cooperation and Development (OECD), of which the United States is an active member, uses the ISCED system, as do most OECD member countries. So does the European Community (EC). Major non-governmental international organizations also employ ISCED, including the International Association of Universities (IAU) and the International Assessment of Educational Progress (IAEP).

The information presented in this *Guide* contributes to more effective international education research and data exchanges by making possible more accurate, reliable, and valid reporting of data on instructional program activity than has been possible in the past. The crosswalks presented in the *Guide* allow data analyses at each level of education as defined by both ISCED and the National Center for Education Statistics. Because this crosswalk is keyed to both the 6-digit codes used in the U.S. CIP classification system and to the education level codes used in the CCD and IPEDS national surveys, it can be used to translate any data based on them. This feature permits use of this *Guide* by researchers and data consumers who employ different, or adapted, versions of these federal data systems. While it is preferable to use the current NCES-approved versions of CCD, IPEDS, and CIP, this is not always possible, especially for historical data collected under older classification systems and using earlier versions of survey instruments. Basing the postsecondary crosswalks to ISCED on the smallest pertinent data elements (6-digit instructional program codes in CIP) helps to overcome the longitudinal continuity problem because current CIP 6-digit codes can be crosswalked to and from prior editions of CIP and older classification systems.

Feasibility of Crosswalking U.S. Data to ISCED

The U.S. educational system differs in detail from those of other countries. This is not unusual—national education systems nearly always exhibit characteristics of organization, philosophy, and governance that distinguish them from others and that make international comparisons difficult. Comparisons are possible, nonetheless, so long as what is to be compared can be operationally defined using similar terms, data can be collected using similar procedures and sources, and analyses of the results are bounded by the limits thus

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set. Such analyses must always be made with care.

In all educational systems, at all levels, students enter and leave the system, are certified as having completed programs of study, and concentrate in specific subject fields. These educational processes, in all systems, are conducted through recognized institutions which are authorized to provide education. While individual national organization and patterns of education may differ widely, it is possible to report data on similar activities in mutually recognizable and useful ways. Comparability is possible, in part, because of general similarities in the way all national systems are organized and, in part, because of the existence of established international data reporting tools such as ISCED.

ISCED provides eight levels for reporting education program data. Countries whose educational systems include secondary programs divided into lower (junior high/middle/intermediate school) and upper (senior high) divisions; that place advanced occupationally specific programs neither in basic secondary school nor higher education; and that offer more than three distinct types of postsecondary programs often have difficulty deciding how to fit these realities into the ISCED framework. Significant country-to-country differences in what a particular education level signifies are also lost when these important nuances are collapsed into a more general ISCED level designation.

In addition to having fewer reporting levels than most countries have education levels or program completion points, ISCED also recognizes fewer educational program categories than many educational systems use. ISCED program descriptions are also quite broad and represent aggregations of specific program fields which educators and policymakers often treat separately. Furthermore, the arrangement of the ISCED program groupings does not always follow that used in the country supplying data under the ISCED system, thus necessitating a reorganization of data that may wind up bearing little resemblance to national practice.

Despite difficulties in adapting data from various national data systems to the ISCED format, the system has grown to be the most pervasive and important education program classification in the world and is used widely in research as well as in data exchanges. It is likely that ISCED will continue to be the basis of international comparisons for the foreseeable future. The importance of ISCED makes it desirable to develop and use a standard method of translating U.S. education program data into the ISCED format, and *vice versa*.

Historical Efforts at International Data Crosswalks

In 1978, the National Center for Education Statistics sponsored a feasibility study to develop

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a crosswalk between the education program classification systems then in use and ISCED.[2] While this effort did produce a conceptual framework for a data crosswalk, it was not implemented. In 1980 the National Center for Education Statistics developed the CIP system to combine and replace the previous classification systems. This change rendered the concepts developed in 1978 obsolete.

In 1982, NCES revisited the question of a crosswalk to ISCED and prepared a concept paper based on the 1980 CIP and the data reporting conventions then being used.[3] No further work on a CIP/ISCED crosswalk was done until the 1990 CIP was designed and implemented.

The 1990 CIP represents a significant modification and improvement of the CIP system: it is more logically arranged and easier to use than previous editions. These modifications were made — in part — with the possibility of a CIP/ISCED crosswalk in mind. Indeed, cumulative modifications to the CIP system over time, plus the profound differences between CIP and its predecessors (HEGIS and Handbook VI), combine to make data reporting under older versions of CIP and crosswalks from obsolete systems, unsatisfactory and unreliable. To insure conversion to the 1990 CIP, NCES has instituted an extensive program to train users and data providers and has provided a free conversion diskette to users who request it (the order form is in the 1990 CIP manual).

The Need to Crosswalk CIP, IPEDS, and CCD

U.S. education program data are collected via two different groups of surveys, IPEDS and CCD. II EDS collects extensive postsecondary data on enrollments, program completions, and other questions, while CCD collects a variety of primary and secondary education data — including enrollments by grade level and high school program completions. IPEDS and CCD each consist of a group of survey instruments which target different issues. Both are also censuses of the universe of educational providers (in the case of IPEDS) or state oversight bodies (in the case of CCD) dealing with the aspects of education activity they cover. Education program data collected through IPEDS are simultaneously arranged by CIP program classification and by IPEDS education level. CCD is not linked to CIP.

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[2] National Center for Higher Education Management Systems (NCHEMS), *Using ISCED for Reporting NCES Data to UNESCO: A Feasibility Study.* (Washington: National Center for Education Statistics, November 30, 1978). The CIP system did not exist in 1978. Education program data were then reported under two separate systems. Elementary, secondary, and vocational program data were reported using John F. Putnam and W. Dale Chismore, *Standard Terminology for Curriculum and Instruction in Local and State School Systems, State Educational Records and Reports Series: Handbook VI,* U.S. Department of Health, Education, and Welfare (Washington: U.S. Government Printing Office, 1970), commonly known as Handbook VI. Postsecondary program data were reported using Robert A. Huff and Marjorie O. Chandler, *A Taxonomy of Instructional Program in Higher Education,* U.S. Department of Health, Education, and Welfare (Washington: U.S. Government Printing Office, 1970), variously known as the Huff-Chandler or HEGIS Taxonomy.

[3] Emanuel Weinstein. "International Standard Classification of Education (ISCED) Handbook for the United States: A Report." Commissioned Paper. (Washington: National Center for Education Statistics, December 1982).

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An ISCED crosswalk system needs to deal with all three components of the U.S. data collection system in order to provide complete coverage of U.S. education program activity.

Integrated Postsecondary Education Data System (IPEDS). IPEDS is the comprehensive data collection tool by which the National Center for Education Statistics obtains statistics on U.S. postsecondary institutional activity. It is a comprehensive system because it combines several different surveys into a single data collection process. IPEDS data pertaining to instructional programs are collected using CIP as the definition and classification tool. CIP also controls the analysis, interpretation, and reporting of such data. Specific IPEDS survey categories that employ CIP include: enrollment in occupationally specific instructional programs, program completion data (all instructional programs), and institutional characteristics.

IPEDS was first implemented for 1986 data as a successor to the previous HEGIS data collection system.[4] It has relied on voluntary cooperation by postsecondary institutions and on data collection agreements negotiated, and continuously updated, between NCES and state education agencies, state occupational information coordinating committees (SOICCs) and associated information systems, educational organizations, and institutions. Beginning in 1994, however, participation in IPEDS will become mandatory for all postsecondary institutions seeking to become, or remain, eligible to participate in U.S. Department of Education assistance programs (grants and loans) for registered students. IPEDS is the most comprehensive national postsecondary data collection activity in the United States.

Classification of Instructional Programs (CIP). The *Classification of Instructional Programs, 1990 Edition* is the official U.S. federal data standard for reporting statistics on instructional programs at all levels of education, including data on programs offered by institutions, student enrollments in programs, program completions, related faculty and resources, library programs, and various estimates and projections that guide national policy.

CIP defines and controls the programmatic categories by which data from institutions and surveys are collected, analyzed, and disseminated. It is the taxonomic framework underlying most major federal education surveys and databases including those of the National Center for Education Statistics (U.S. Department of Education); National Science Foundation; Bureau of Labor Statistics (U.S. Department of Labor); Bureau of the Census (U.S. Department of Commerce); and various education-related activities of the U.S. Departments of Agriculture, Defense, Health and Human Services, and State.

Because many private sector data bases depend upon data obtained from the National Center for Education Statistics and other federal agencies in addition to their own, the CIP system also underlies many surveys and analyses conducted outside the government. These users of

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[4] HEGIS stands for Higher Education General Information Survey. HEGIS was developed by the National Center for Higher Education Management Studies (NCHEMS) under an NCES contract and was used to collect national data from 1968 to 1985. HEGIS is still in use as a private data system but has been superseded at the federal level by the more comprehensive, up-to-date, and accurate IPEDS system.

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federal data include such organizations as the College Board, Educational Testing Service, Institute of International Education (IIE), American Council on Education (ACE), and others.[5] Many state governments, educational systems, and individual institutions use CIP or classifications derived from it, as do independent researchers who employ federal education data in their work or cite it.

Common Core of Data (CCD) Survey. The CCD functions as does IPEDS, except for the primary and secondary levels of education. It is a comprehensive series of survey instruments sent annually to state education agencies for collecting data the agencies obtain from public school districts, local education agencies, and individual schools. Five separate surveys are conducted: the public school universe (selected characteristics of schools); the local education agency universe (basic agency data plus aggregate student statistics); the state aggregate non-fiscal report (student and staff data, statewide); the state aggregate fiscal report (state agency fiscal data); and early estimates (statewide school-year enrollment projections as of December 31). The CCD permits the maintenance of a national data base on public primary and secondary education, based on uniform reporting requirements and operational definitions.

The CCD was first implemented in 1981, and has been refined periodically since that year. No data on the educational activities of students in the K-12 grades, such as subjects studied and courses taken en route to the high school diploma, are collected through CCD. Data are collected only on enrollments at each grade level and on the number of students earning high school diplomas or equivalency certificates. For purposes of definition, a high school diploma course of studies equates to a program as defined in CIP for postsecondary education. Programs of more specificity, corresponding to a secondary-level concentration or "major," do not usually exist in the United States.

Direct information about what subjects American high school students study is obtainable from the databases for each of the national longitudinal studies that have been sponsored by NCES since 1972.[6] Each of these studies collects secondary school transcript data on respondents' course-taking activity. Because there is an 8-year gap between each of these studies, only the most recent transcript sample (1992) can be used to approximate current

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[5] The National Center for Education Statistics and other federal agencies supply data to these and other organizations through various formal and informal arrangements, and such data are also available to the public. Federal law and regulations do not require the recipients to acknowledge the origin of the data (unless obtained under a contract), although the professional courtesy of citation is requested. For this reason, these data are frequently provided to organization clients in repackaged form without attribution as to origin, and the extent of reliance on federal expertise and data collection capabilities is thus obscured.

[6] Three longitudinal studies have been conducted to date: the National Longitudinal Study of the High School Graduating Class of 1972 (NLS-72), starting with a sample of 12th graders; the High School and Beyond Study (HSB), starting with two samples, one of the sophomore (grade 10) and a second of the senior (grade 12) class of 1980; and the National Education Longitudinal Study of 1988 (NELS-88), starting with a sample of students in grade 8 as of 1988. Each longitudinal study is followed up at intervals across the academic and work careers of the respondents, with successive sample cohorts being surveyed. In addition, secondary and postsecondary transcript records are collected from respondents who agree to furnish them.

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practices. For this reason, no crosswalk pertaining to U.S. PK-12 curriculum content areas is presented in this *Guide*.

CHAPTER 1

Technical and Methodological Considerations

Statistical data need to possess certain characteristics in order to be comparable. The data should be based on classification systems that use similar definitions and concepts and that are collected through similar methods. Those who make comparisons should understand that comparability is limited to data that possess these characteristics and to concepts that can be appropriately expressed in quantitative terms.

CIP and ISCED Definitions of an Instructional Program

The CIP instructional program classification system and ISCED define an instructional program the same way. The 1990 CIP defines an instructional program as follows:

> *A combination of courses and experiences that is designed to accomplish a predetermined objective or set of allied objectives such as preparation for advanced study, qualification for an occupation or range of occupations, or simply the increase of knowledge and understanding.*[7]

This conceptual definition is then restated in operational terms:

> *An instructional program must be offered by, through, or under the auspices of an educational institution or other provider;* [and the] *accomplishment of predetermined objectives must mean, in practice, the presence of a set of structured learning experiences, as defined by an institution or other provider, that lead to a completion point, and that point must be formally certified via an award or other form of recognition.*[8]

The ISCED definition of an instructional program is similar to that of CIP:

> *For the purposes of ISCED, ... education is taken to comprise organized and sustained communication designed to bring about learning. Communication requires a relationship between two or more persons involved in the transfer of information. Organized is intended to mean planned in a pattern or sequence with established aims or curricula. ... Sustained is intended to mean that the*

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[7] W. Dale Chismore and Quentin M. Hill, *A Classification of Educational Subject Matter, State Educational Records and Reports Series: Handbook VI* (Washington: U.S. Government Printing Office, 1978), p. 165, quoted in Robert L. Morgan, E. Stephen Hunt and Judith Carpenter, *Classification of Instructional Programs: 1990 Edition*, (Washington: U.S. Government Printing Office, 1991), p. x.

[8] Morgan, Hunt, and Carpenter (1991), p. x.

*learning experience has the elements of duration and continuity. **Learning** is taken as any change in behavior, information, knowledge, understanding, attitudes, skills or capabilities which can be retained and cannot be ascribed to physical growth or to the development of inherited behavior patterns.*[9]

As has been pointed out in previous NCES-sponsored studies comparing U.S. and ISCED concepts and structure,[10] both ISCED and CIP are referring to the same type of data and define these data in similar ways. Therefore, no basic conceptual obstacle stands in the way of defining U.S. postsecondary instructional program data in terms of ISCED. Any problems to be encountered with such a crosswalk will be technical, not cultural, since ISCED is an international set of conventions and does not represent any national system. Since other national users of ISCED interpret their data in terms of this set of conventions as well, valid and reliable international comparisons employing the ISCED system are possible.

U.S. and ISCED Level Definitions

ISCED organizes educational programs into levels. CIP is not organized according to the degree level at which programs are awarded, but rather by the type of program being described.[11] The levels at which various program data are reported, corresponding to levels of degrees awarded, are defined by IPEDS survey instruments and database conventions. Thus for postsecondary education program data, CIP and IPEDS must be treated together in constructing a crosswalk to ISCED.

In ISCED, education levels are defined as:

... categories representing broad steps of educational progression from very elementary to more complicated learning experiences.[12]

There are eight identified ISCED levels. An examination of the level descriptions in the ISCED manual reveals that ISCED levels are operationally defined in terms of school years

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[9] UNESCO Division of Statistics on Education, Office of Education, *International Standard Classification of Education: ISCED*, (Paris: UNESCO, March 1976), p. 2.

[10] Emanuel Weinstein, p. 4.

[11] There are three specific exceptions to this statement in the 1990 CIP. First-professional degree programs, a separate data category including certain first degrees in professional fields, are defined by the degree awarded. So are general nursing programs, because in the United States such programs are degree-specific. In addition, some programs that are not offered at postsecondary levels (high school diplomas and certificates), that are not definable by level (leisure programs), or that are level-specific but for which data are not regularly reported (hospital residencies and Reserve Officer Training Corps programs) are separated from other classified programs. Each exception has been made in the interests of insuring accurate data reporting.

[12] UNESCO, *International Standard Classification of Education*, p. 4.

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(grades) completed, or completion awards earned, where appropriate.[13] This is the same procedure followed in IPEDS. Because the ISCED operational definitions express educational levels in terms of age ranges and sequence of instruction, they can be translated into U.S. equivalents.

Level definitions used in the CCD survey system to report primary and secondary education data are based upon school grade levels and thus are equally amenable to translation into ISCED levels.

The Organization of Program Descriptions in CIP and ISCED

CIP Organizational Structure. CIP program descriptions are organized into three categories of specificity. Individual program descriptions in CIP correspond to discrete instructional programs as offered in schools and other educational institutions. They are each assigned a unique 6-digit code. In the 1990 CIP there were 1,066 individual program d scriptions assigned 6-digit codes.

Second, the 6-digit codes/program descriptions are grouped into what are called Series, with each Series assigned a 4-digit code (the same as each 6-digit code within the Series minus the last two digits). There are 341 separate 4-digit Series codes in the 1990 CIP. These 4-digit Series are further grouped into a final set of Series, assigned a 2-digit code (the first two digits of the 4-digit Series code). The 1990 CIP contains 49 two-digit Series.

A user of CIP who refers to a specific program description can instantly tell its location in the layered system of Series aggregations. Data collected via IPEDS that use CIP codes are reported at the 6-digit CIP code level of detail. The collected data are analyzed and published at different levels of detail (Series or individual code) depending upon the nature of the study being conducted or the information request received.

Typical CIP program descriptions look like this:

27.   **MATHEMATICS.** A summary of groups of instructional programs that describe the systematic study of logical symbolic language and its applications.

> **27.01 Mathematics.** A group of instructional programs (see 27.0101)

>> **27.0101**   **Mathematics.** An instructional program that describes the rigorous analysis of quantities, magnitudes, forms, and their relationships using symbolic logic and language. Includes instruction in algebra, calculus, functional analysis, geometry, number theory, logic, topology, and other mathematical specializations.

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[13] *Ibid.*, pp. 5-12.

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The first description, numbered 27, is the 2-digit Series, followed by the 4-digit Series and the individual 6-digit code. In this example, all three layers of the classification "mathematics" possess the same title. CIP codes and Series are usually identified by means of their numerical designations.

ISCED Organizational Structure. Each ISCED program description is assigned a 5-digit code. The first digit identifies the education level. Within the system of educational levels, ISCED defines programs by two categories: broad subject fields and program descriptions within the broad fields. (It should be noted that an ISCED program description, called a "program group" in the ISCED Manual, is really an aggregate description combining several programs that would be coded individually in CIP.) ISCED's broad fields are assigned a 2-digit code and are as follows:

01	*General Programmes*
08	*Literacy Programmes (Adult)*
14	*Teacher Training and Other Education Programmes*
18	*Fine and Applied Arts Programmes*
22	*Humanities Programmes*
26	*Religion and Theology Programmes*
30	*Social and Behavioural Sciences Programmes*
34	*Commercial and Business Administration Programmes*
38	*Law and Jurisprudence Programmes*
42	*Natural Sciences Programmes*
46	*Mathematics and Computer Sciences Programmes*
50	*Medical and Health Programmes*
52	*Trade, Craft, and Industrial Programmes, n.e.c.*
54	*Engineering Programmes*
58	*Architectural and Town-Planning Programmes*
62	*Agricultural, Forestry, and Fishery Programmes*
66	*Home Economics (Domestic Science) Programmes*
70	*Transport and Communications Programmes*
78	*Service Trades Programmes*
84	*Programmes in Mass Communications and Documentation*
89	*Other Programmes*

Residual counts of programs are coded "89" at the broad field level and "99" at the program group/description level. Distinct sub-fields, such as allied health within the broad "Medical and Health Programs" field, are indicated in ISCED by assigning a different fourth digit to each such subfield code.

Overall, the ISCED system contains 21 distinct broad field categories (repeated at various levels for a total of 107 level-specific field descriptions), and 520 level-specific program descriptions. ISCED broad fields and program groups are organized across eight different education levels. By level, the ISCED field and program counts are:

Level	Broad Fields	Program Descriptions
0 [Prekindergarten/Kindergarten]	1	1
1 [Grades 1-6; Adult Literacy]	10	31
2 [Grades 7-9]	11	40
3 [Grades 10-12]	13	71
5 [Postsecondary LT 4 Years]	19	123
6 [Bachelor's/Post-B Cert.]	17	106
7 [Graduate Awards]	16	99
9 [Personal/Leisure Programs]	20	49
Total:	107	520

Gaps occur in the ISCED numbering sequences in regard to level, field, and program description. These gaps are purposefully designed to allow for potential expansion of the system, although to date no expansion has occurred.

Overcoming CIP and ISCED Differences

CIP and ISCED cover the same universe of instructional programs but group them differently. CIP 6-digit program descriptions are usually, but not always, more specific than any program group description in ISCED, regardless of ISCED level.

Basing the Crosswalk on Six-Digit CIP Codes. While CIP and ISCED do not group program categories in precisely the same ways, the differences can be overcome. In both systems, the aggregated general categories are composed of collections of specific programs. In CIP the most specific category is coded into the system (6-digit level). The most specific ISCED category is not coded into the system, but is identified in the descriptions accompanying each ISCED program group. These descriptions indicate the specific programs that are meant to be included under each ISCED program group. Thus, the CIP 6-digit program codes that belong in each ISCED program group can be determined. By constructing a crosswalk from the most specific level up to the general, it is possible to identify groupings of 6-digit CIP codes that directly and accurately correspond to ISCED program groups and broad fields.

Using ISCED Rules to Insert Necessary Codes. In some cases, program data are reported in the United States at a level other than, or in addition to, the level at which a program is

described in ISCED. For example, in the United States, art history is offered as an instructional program at the equivalent of ISCED Level 6, but no ISCED Level 6 code appears for it. An ISCED Level 7 code for art history does exist, however. ISCED rules permit such a problem to be resolved by inserting a Level 6 code for art history, using the code number as it appears (Level 7) but prefixed by "6" instead of "7." So long as a program group code appears at some level in the ISCED system, it can be inserted where needed at any other level.[14] The ISCED code insertion rule accommodates national differences in educational practice and greatly reduces the number of unresolvable data placement problems. Any program data which do not fall under any extant ISCED code are placed in the "other" category at the end of each ISCED Level series.

Maintaining Consistent Code Placements Across Levels. ISCED is structured according to a set of assumptions about where most countries offer various programs. These assumptions include education level, type of program, and content specificity. At each educational level, ISCED program descriptions state what kinds of subject matter are expected to be taught, at what level of detail, and what types of program outcome (degree/nondegree, academic/vocational, etc.) are likely. These assumptions make interpretation difficult, since no national system is arranged precisely according to the ISCED model. Unless care is taken, the result can be a crosswalk that is inconsistent across educational levels. The interpretation presented in this *Guide* makes every effort to avoid this problem. Chapters 3-10 contain an item-by-item discussion of how U.S. education program codes can be crosswalked into ISCED at each level, and *vice versa*.

U.S. and ISCED Educational Level Organization

The IPEDS and CCD data collection systems serve the function of distinguishing U.S. education data by level. CCD does this for primary and secondary data by grade level; IPEDS does so for postsecondary data by level of degree or other award.

CCD Education Levels. CCD employs a grade structure that consists of prekindergarten (PK), kindergarten (K), and grades 1-12. Additional data categories exist for ungraded students and, for statewide data only, students with Individual Education Plans (IEPs). These additional categories encompass a variety of educational arrangements and services, including special education students (learning disabled and handicapped); students who take extra secondary credits after 12th grade; and students who pass secondary school equivalency examinations.

Data reporting through CCD is done by individual grade level. Reporting data by grade level is necessary because the grade at which primary education is deemed to be completed and the grades identified as the local equivalent of lower secondary education (where the concept exists) vary from state to state. While each U.S. state sets a primary school completion point, there is no standard practice of awarding a certificate or other indication of

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[14] UNESCO. *International Standard Classification of Education*, p. 15.

completion at that point. Consequently, data on primary, lower secondary, and upper secondary level completions do not represent uniform national statistics.[15]

The CCD levels used in reporting students enrolled in, and completing, different grades are as follows:

Code	Title/Description
D	*Students by Grade Level*
D01	*Prekindergarten*
D02	*Kindergarten*
D03	*Grade 1*
D04	*Grade 2*
D05	*Grade 3*
D06	*Grade 4*
D07	*Grade 5*
D08	*Grade 6*
D09	*Grade 7*
D10	*Grade 8*
D11	*Grade 9*
D12	*Grade 10*
D13	*Grade 11*
D14	*Grade 12*
D15	*Ungraded*

In addition to the 14 general grade levels by which CCD data may be disaggregated, CCD employs two other coding sequences that relate to educational level: Instructional Staff and Support Services Staff. Some (but not all) state education agencies report data in these data categories as follows:

Code	Title/Description
B	*Instructional Staff*

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[15] Annual data collections reveal that patterns of education level demarcation vary within as well as among states. In the United States primary and secondary education are treated together as a continuum, with the only critical points being the end of compulsory school attendance (determined by age and also varying by state) and high school graduation (always the completion of 12th grade or the equivalent). Concepts such as "elementary," "middle," "junior high," and "senior high" school are generally understood and used in common discourse, but are not as important as they are in countries where similar concepts denote important transition points in student development, have legal meaning in terms of credentialling, and are marked by critical national examinations and counseling decisions. For these reasons, statistical data are usually reported by individual grade rather than broad level. Recent data (1993) from the CCD universe database indicate that fewer than 6 percent of all U.S. schools follow a level breakout similar to that used for ISCED levels 0-3. Detailed analyses of this complex topic may be found in the *Common Core of Data Public Elementary and Secondary School Universe* (Washington: NCES, annually updated database); and Lena McDowell, *Public Elementary and Secondary Schools and Agencies in the United States and Outlying Areas: School Year 1991-92*, E.D. Tabs No. NCES 92-031, (Washington: NCES, June 1993).

B01	*Prekindergarten Teachers*
B02	*Kindergarten Teachers*
B03	*Elementary Teachers*
B04	*Secondary Teachers*
B05	*Teachers of Ungraded Classes*
C	*Support Services Staff*
C01	*Elementary Guidance Counselors*
C02	*Secondary Guidance Counselors*

Each state is permitted to interpret the terms "prekindergarten," "kindergarten," "elementary" and "secondary" using its own laws and regulations.

CIP Secondary Education Program Codes. The CIP system also recognizes a set of general secondary school program completions and includes codes for them in its Series 53. They correspond to the senior high school level (grades 9-12), and are as follows:

53. *HIGH SCHOOL/SECONDARY DIPLOMAS AND CERTIFICATES*

53.01 *High School/Secondary Diplomas*

53.0101 *Regular (General) High School Diploma Program*
53.0102 *College Preparatory High School Diploma Program*
53.0103 *Vocational High School Diploma Program*
53.0104 *Honors/Regents High School Diploma Program*
53.0199 *High School/Secondary Diplomas, Other*[16]

53.02 *High School/Secondary Certificate Programs*

53.0201 *High School Equivalence Certificate*
53.0202 *High School Certificate of Competence*
53.0203 *Certificate of IEP Completion*
53.0299 *High School/Secondary Certificates, Other*[17]

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[16] U.S. practice recognizes all types of high school diploma as equivalent in terms of signifying secondary graduation. The content of the course of studies for each type of diploma varies by state, by school, and by individual recipient, since state laws frequently permit wide discretion in interpreting requirements. Postsecondary institutions impose entrance requirements that are regularly published and updated which show what courses of study, and credits earned, in secondary programs are acceptable.

[17] Persons who did not complete regular secondary school may prepare for the *High School Equivalence Certificate* through the General Educational Development (GED) program. Upon completing the GED program and passing a comprehensive examination, individuals are awarded a certificate which is legally equivalent to a regular high school diploma. A *Certificate of Competence* indicates that a student has met specific performance standards in some special field, such as a vocational subject, academic subject matter (languages, mathematics, etc.), or passed an achievement test. It is not equivalent to diploma award. A *Certificate of IEP Completion* means that a student with a learning disability has completed a customized Individual Education Plan (IEP). Whether an IEP represents a full secondary program

These program descriptions are among the very few in CIP that may be used for reporting instructional program data below the postsecondary levels. The CIP definition of an instructional program refers to structured learning experiences that are composed of several component experiences (courses, fieldwork, laboratories, lectures), have defined entrance and completion points, and result in an award or other certification of completion. Most U.S. secondary school studies consist of subject-matter fields organized into courses, which are discrete modules lasting up to an academic year in length. Courses are not complete programs, and it is not intended that secondary students concentrate in a special field and thus complete a program. Instead, U.S. secondary education is structured around the requirements for general diplomas, and these are the only sequences that qualify as instructional programs. Some states have recognized certain subject-matter foci, particularly in vocational fields, as secondary-level programs, but this is not a nationally consistent practice.

CIP secondary program codes are not currently employed in the CCD survey. The CIP secondary program codes correspond, however, to the following CCD data categories:

CCD Code	Title/Description	CIP Equivalent(s)
E	*High School Completers*	(all)
E01	*Regular Diploma*	(53.0101)
E02	*Other Diploma*	(all other diploma codes)
E03	*High School Equiv. Recipients*	(53.0201)
E04	*Other High School Completers*	(other certificate codes)

IPEDS Postsecondary Education Levels. Instructional programs that lead to content-specific awards (degrees, diplomas, certificates, etc.) are the rule rather than the exception at the postsecondary level. Furthermore, these program completion points are reached by different students on different timetables, according to individual institutional program requirements on the one hand and student persistence on the other. For these reasons it is both meaningful and logical to report postsecondary program data, whether for enrollments or completions, by level of award. IPEDS assigns reported program data to one of 11 levels, corresponding to successive points of program completion and/or award. These levels are defined in Question 4 of the standard IPEDS survey instruments. They include:

LT1   *Postsecondary Award, Certificate or Diploma of Less Than One Academic Year*

LT2   *Postsecondary Award, Certificate or Diploma of At Least One but Less Than Two Academic Years*

Asc   *Associate's Degree*

LT4   *Postsecondary Award, Certificate or Diploma of At Least Two but Less Than Four Academic Years*

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depends upon the individual case.

Bac	*Bachelor's Degree*
PBC	*Postbaccalaureate Certificate*
Mas	*Master's Degree*
PMC	*Post-Master's Certificate*
Doc	*Doctor's Degree*
1PD	*First-Professional Degree*
1PC	*First-Professional Certificate (Post-Degree)*

IPEDS levels comprise a sequence of increasing distance from secondary school completion. Levels 1PD and 1PC are out of sequence because they refer to programs that are post-bachelor's. Neither level 1PD or 1PC is equivalent to IPEDS level Doc, which denotes the research doctorate.[18]

Data on programs that do not fall into the IPEDS level sequence, such as personal development, leisure, and basic adult education programs, are not currently collected. They are occasionally gathered using surveys with more limited objectives, such as the National Adult Literacy Survey. When CIP codes are used in such surveys there is no correspondence to the levels of formal education.

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[18] Most of the degrees called "first professional" in U.S. terminology are labeled doctorates, such as Doctor of Medicine (MD), Doctor of Dental Science (DDS), Doctor of Pharmacy (PharmD), and Doctor of Laws (JD), among others. None of the degrees in this special category is a research doctorate, however. Each represents a first degree in the subject studied and is considered a graduate-level degree only because a previous bachelor's degree or the equivalent had to be earned. Genuine graduate research degrees are awarded in most of these professional fields, but they are higher degrees. A complete list of the recognized first-professional degrees follows, accompanied by a partial listing of the most common graduate degrees in each field.

1PD Degree	Master's Degree	Research Doctorate
Chiropractic (DC, DCM)*	None	None
Dentistry (DDS, DMD)	MS	PhD
Divinity/Ministry (BD, MDiv)**	MA, MTh	PhD, ThD
Law (LLB, JD)	LLM, MCL	JSD, SJD
Medicine (MD)	MS	PhD
Optometry (OD)	MS	PhD
Osteopathic Medicine (DO)	MS	PhD
Pharmacy (BPharm, PharmD)	MS	PhD
Podiatry (PodD, DP, DPM)	None	None
Rabbinical/Talmudic Studies (MHL, Rav)	Same	DHL, PhD
Veterinary Medicine (DVM)	MS	PhD

* *May require only an Associate Degree as a prerequisite; in such cases the 1PD level is equivalent only to a single bachelor's degree.*

** *The further professional degree "Doctor of Ministry (DMin)" is frequently awarded after the MDiv. It is an advanced professional qualification and is not equivalent to a research doctorate.*

The category of first professional degree is limited to the eleven fields listed above and is thus not exhaustive of all professional fields nor of all degrees which could be styled "first professional."

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Educational Levels Used in ISCED. ISCED uses an educational level organization that is much simpler than the combined CCD and IPEDS systems. It comprises eight categories corresponding to broad ranges of educational development, as follows:

0   *Education Preceding the First Level*
1   *Education at the First Level*
2   *Education at the Second Level, First Stage*
3   *Education at the Second Level, Second Stage*
5   *Education at the Third Level, First Stage, of the Type That Leads to*
       an Award Not Equivalent to a First University Degree
6   *Education at the Third Level, First Stage, of the Type That Leads to a*
       First University Degree or Equivalent

7   *Education at the Third Level, Second Stage, of the Type That Leads to*
       a Postgraduate University Degree or Equivalent
9   *Education Not Definable by Level*

An examination of the level descriptions in ISCED reveals that they are operationally defined in terms of school years (grades) completed, or completion awards earned, where appropriate.[19] IPEDS and other U.S. educational surveys define levels in the same way that ISCED does. The operational definitions of each of the ISCED levels are:

0   Education beginning at around ages 3-5, lasting 1-3 years.

1   Education beginning at ages 5, 6, or 7 and lasting for 5-6 years.
    [Note: Basic Adult Literacy data are also reported here under
       the ISCED system.]

2   Education beginning at around ages 11-12 and lasting for about 3
       years.

3   Education beginning at around ages 14-15 and lasting for about 3
       years.

5   Education beginning at about ages 17-18, lasting up to 3 years, and
       that often prepares persons for employment.

6   Education beginning at about ages 17-18, lasting around 4 years, and
       that prepares persons for postgraduate study or employment.

7   Education beyond Level 6 which requires prior completion of Level
       6.

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[19] UNESCO, *International Standard Classification of Education*, pp. 5-12.

9   Out-of-school educational programs and experiences for which no explicit or implicit prerequisites exist, which are outside the core school or university system, and which are often part-time and of short duration.

With allowances for the fact that these operational parameters were framed in the early to mid-1970s and reflect the then-current bias toward defining educational levels in terms of "traditional" school-age populations, they nonetheless correspond to recognizable stages that have U.S. equivalents.

Crosswalking between U.S. and ISCED Level Organizations

There is no particular difficulty in assigning U.S. levels of education to corresponding ISCED levels, or *vice versa*. The fact that the ISCED level assignments do not precisely correspond to U.S. postsecondary degree structure or to particular state-designated school levels is not an impediment since ISCED defines education levels in terms of year-equivalents of schooling completed, as do most U.S. systems. By concentrating on these successive and cumulative school-year equivalencies, one can derive the following comparable level descriptions:

ISCED Level	U.S. Equivalent
0	Prekindergarten —Kindergarten
1	Grades 1-6; Basic Adult Literacy data
2	Grades 7-9
3	Grades 10-12
5	Postsecondary programs from Less Than One Year to At Least Two But Less Than Four Years
6	Bachelor's Degree and Postbaccalaureate Certificate
7	All IPEDS levels beyond the Postbaccalaureate Certificate, including First-Professional
9	Personal Improvement and Leisure Programs data

The Data to be Crosswalked

A crosswalk is a guide for both coders and users of data. For coders, a crosswalk must permit the interpretation and accurate placement of all data that may exist in the database to be crosswalked. In order to accomplish this function, the crosswalk instructions must include placements for every data element in each system, regardless of whether actual data are collected for a specific data element at any given point in time. The fact that data are collectable requires crosswalk instructions, since not to do so would entail modifying the crosswalk every time the data change. Such piecemeal modifications are neither cost-effective nor good statistical practice.

Users of crosswalked data have other interests besides coding. Data interpretation, to users, also means knowing what data are actually available and why such data are assigned to one position in the crosswalk and not to another. A user's interest in empirical knowledge about the data is thus different from a coder's interest in accurate and complete guidance concerning what to do with data.

The primary function of this *Guide* is to describe a crosswalk that enables U.S. education program data to be accurately reported using the ISCED classification system. The *Guide* has a second function as well, which is to indicate to users information about the data to be crosswalked. Both coders and other users will benefit from knowing which U.S. data codes are being used to report data as of the most recent reporting year (1990-1991). They will also benefit from knowing about the additional U.S. program codes that correspond to each ISCED program group and that fall under two other categories: (1) existing codes for which data may be collected in different years, and (2) codes added to the 1990 CIP and which may be expected to result in data in the future. Chapter 2 contains decision rules and conventions concerning how this *Guide* distinguishes these types of codes. Such distinctions are listed in the discussion of each crosswalk category which appear in chapters 3-8. The chapter discussions also indicate why U.S. program codes are crosswalked to the ISCED system at particular levels. Both the chapters and the appendix also indicate, for those interested, which crosswalked data codes are collecting significant data.

Limitations on Comparability

It is technically possible to produce crosswalks from U.S. educational program and level structures to the ISCED system and to do so in a manner that is logical and consistent. The results of such an exercise will be reliable and valid within the limitations of the data and the data-coding categories used. While this document does not provide room for an adequate discussion of national or international data comparability problems, it is appropriate to remind the user of several general considerations.

Factors Affecting U.S. Data. The tremendous variety inherent in U.S. educational institutions and systems, compounded by the federal political structure and the internal governance structures for education in each U.S. jurisdiction, result in internal complexities

that in many respects mirror international data problems. Technical definitions, conventions, reporting standards, formulae, analysis procedures, and publication conventions differ across (and often within) states, districts, and institutions. National data based on uniform criteria can be obtained only for items presented in nationwide surveys to which respondents agree to follow standardized reporting guidelines, and thus will not always match data reported under local guidelines, different survey methodologies, and other collections. Any aggregation of data that is presented as a national statistical portrait will be valid only within whatever parameters surround the data collected for it. Initiatives and agreements are constantly in progress to achieve wider standardization of terms, definitions, and formulae, but this process is necessarily lengthy. The complexity that characterizes U.S. education data affects the construction of a "national" portrait of U.S. educational activity. Efforts to generalize about U.S. national educational activity cannot extrapolate the experience of a single U.S. state to the whole country, or simply sum individual states' published data.

These caveats are not data quality limitations per se, but rather reflect the organization and governance of American education. Each country that reports data for comparative purposes through ISCED possesses a unique set of such caveats. This is why such data represent only an approximation of the educational activity in the world, and are useful primarily for general information.

Factors Affecting ISCED. ISCED contains fewer program descriptions and level distinctions than actually exist in U.S. practice or in the practice of many other nations that employ the ISCED system in reporting data internationally. Also, the arrangement of ISCED program groups at different levels differs from that prevailing in the United States and other countries. The fact that ISCED rarely matches the education program data classification used by a specific country necessitates adaptation whenever ISCED is used to report national data. A situation thus arises whereby data reported via ISCED program groups and levels may not accurately reflect what goes on inside the educational system that is purportedly described by those adapted data. Indeed, some data may be placed, for ISCED reporting purposes, into categories that have no meaning in the national system for which they are reported. The result is that education program data reported under the ISCED system may be useful as general descriptive information but do not necessarily represent a detailed or even accurate picture of a specific nation's national educational degree structure, sequence, or program activity.

Interpretation and Use of Crosswalked Data

Domestic data collected by CCD and IPEDS (the latter using CIP codes) are descriptive of U.S. educational activity, and may be used in analyses of trends in such areas as enrollments and completions. These data do not answer questions related to the quality of the educational activity thus observed or the standards involved in the certification of given levels of achievement. Likewise, ISCED is a descriptive statistical tool that cannot be used to compare the process and quality of educational systems and programs. Program and level characteristics differ widely—both between and within countries. A U.S./ISCED crosswalk

is useful in comparing statistics about aggregate trends and even organization but is insufficient by itself to address issues such as the equivalence of program and degree content, academic standards, or system quality.

Particular concern surrounds the problems presented by three U.S. educational program completions: secondary graduation, less-than-4-year postsecondary programs, and the bachelor's degree. Neither American nor foreign educational authorities regard these U.S. completion awards as directly equivalent to some foreign secondary school completion awards that are treated, in the ISCED system, as similar. The foreign examples most frequently cited are the upper-level European academic secondary graduation awards (such as the French *Baccalauréat*, German *Abitur*, English Sixth Form/A Levels, and others), and the first-university degrees in countries whose postsecondary systems follow the European university model. Both these degree levels and their U.S. counterparts must now be reported at the same ISCED Level because the ISCED system possesses no means of fine-grained disaggregation.

There is no way to avoid an appearance of spurious equivalency under current international classification rules, since ISCED itself does not provide for the fine-grained level breakouts that would be needed to separate such awards. Nor does ISCED address issues such as the differences in curriculum content, standards, and intensity of study that mark the real distinctions between various secondary and postsecondary programs in different countries.

Decentralized, market-oriented educational systems, such as the American, exhibit inherent internal variations and inconsistencies. These variations are accepted within the society as a trade-off between the competing principles of national consistency and unity, on the one hand, and avoidance of excessive political intrusion into local life by national policymakers, on the other. To those outside the society, however, confusion and frustration can result from the inability to make safe generalizations about important aspects of such a system, particularly things like the uniformity and quality of its credentials. Notwithstanding these difficulties, decentralized systems possess identifiable characteristics that permit them not only to function well in spite of such diversity but to take advantage of the flexibility and resiliency that also inheres within a system driven both by market and political forces.

Likewise, educational systems which are nationally centralized or at least more closely regulated possess internal variations despite the outward appearance of uniformity, and these patterns make it difficult—sometimes impossible—to generalize about them. Many such systems possess more than one type of secondary and/or postsecondary track, very complex degree structures and multiple paths to the same credential, and differentiated institutional structures with separate academic cultures and governance structures. Furthermore, quality is not necessarily uniform throughout centralized educational systems, despite frequent official claims to the contrary. The point is that both formality and informality can produce similar pitfalls for cross-national comparisons; one is not necessarily preferable to the other on grounds of clarity, simplicity, or consistency.

Whether educational systems are more or less centralized, broad designations and national

standards may not reflect what occurs in any particular educational institution and obviously do not reflect the actual experience of any specific individual. Differences of educational philosophy, program content, teaching methods, and learning styles exist even where formal structures are superficially similar, and render comparative analyses difficult. ISCED's purpose is to place the programmatic and institutional data-reporting categories of national education systems into a consistent framework in order to permit analyses of broad educational trends. Inevitably, this means that some precision is lost, as local definitions and practices are ignored. It also means, certainly, that some questions which aggregate descriptive and trend data cannot answer lie outside this system. On the other hand, ISCED is a powerful tool for observing general transnational activity in agreed-upon categories of level and program type.

Various proposals have been made, and some have been implemented, to overcome the effect of collapsing data on unlike degree levels into the same broad ISCED levels. Each ISCED level can be broken out into sublevels by assigning each ISCED level a two-digit code, as is being done in the United States and by the International Association of Universities (IAU).[20] This permits a breakout of each ISCED level into as many as nine sublevels (with a 10th position for unclassifiable data), thus permitting more detailed distinctions between degree levels than the basic ISCED system allows. Data organized under these sublevels can be aggregated to produce a standard ISCED format as necessary.

Another solution is to modify the ISCED system itself by adding the two currently missing levels, 4 and 8. This possibility has been discussed internationally and would entail reorganizing the contents of the levels.[21] If a reorganization of ISCED levels were considered, Levels 1-3 could remain as they are, but the other levels would be changed by the insertion of 4 and 8. No reorganization plan has come under active consideration, however, and so this solution remains speculative at this time. Level reorganization is a conservative alternative to even more radical proposals to create a replacement for ISCED.

Summary

None of the problems associated with developing a U.S./ISCED crosswalk are insurmountable, nor do they negate the value of such a crosswalk. Definitional compatibility

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[20] The U.S. National Science Foundation (NSF) and National Research Council (NRC) are planning to implement an international data coding system that uses a two-digit ISCED level breakout derived from the institutional level and program type coding systems developed by the IAU. See Trans Regional Academic Mobility and Credential Evaluation (TRACE) Coordinating Center, *TRACE User's Manual*, (Paris: International Association of Universities, International Universities Bureau, 1991).

[21] The theoretical reorganization of ISCED levels was recently discussed at the Meeting of Experts on Educational Indicators and the International Standard Classification of Education (ISCED), Paris, June 11-17, 1992. Similar meetings have been held at intervals since the ISCED system was implemented in 1976. Informal discussions pertaining to ISCED level problems have also been held between representatives of the U.S. Department of Education and the OECD and UNESCO, Paris, January 22-24, 1992.

between the classification systems exists, and this allows direct translation of data elements from one to the other.

Naturally, such a crosswalk is limited by the type of data that it serves. Here, we are talking about aggregate descriptive data that have already been refined at the national level and are to be refined a further step in order to be presented at the international level. One cannot use such data for sophisticated multivariate analyses of research questions; but the data can be useful for noting broad trends across generally recognized educational categories. This alone represents a major advance for comparative educational research and for policymaking and is worth the effort. Furthermore, similar limitations exist for all national statistics that are reported through the ISCED system.

CHAPTER 2

Conventions and Decision Rules
Employed in the Crosswalk

As discussed in chapter 1, there are some technical problems involved in expressing U.S. education data in terms of ISCED concepts. The problems range from the routine, such as how to describe and present the crosswalk elements in a user-friendly manner, to the conceptually important, such as how to deal with situations in which a defensible decision rule must be imposed. Chapter 2 sets forth the textual conventions used to present the crosswalk and the special decision rules that have had to be developed in order to achieve a workable crosswalk. A discussion of the organization of the crosswalk is also provided.

General Textual Conventions

Arrangement. The arrangement of the rest of this *Guide* follows ISCED level and code order in all chapters and in the appendix.

Code and Title Listings. ISCED and CIP code titles are presented in chapters 3-10. For reasons of space and utility these titles are not repeated in the crosswalk matrix in the appendix. CCD and IPEDS level titles are presented in chapter 1 and are likewise not repeated in the appendix. Users may refer to the appropriate chapter to determine what education programs or levels a particular code represents.

Grammar and Spelling in ISCED Titles. United Nations and OECD conventions, to which the United States is a party, recognize the use of British English as the official version of English used for organization documents. Thus, ISCED code titles use British spelling of certain words and employ British grammatical rules in arranging phrases. To avoid confusing users, this *Guide* faithfully follows the international convention whenever it quotes an ISCED title. To convert ISCED titles to American English would confuse both U.S. and foreign users and result in potential error. In all other situations, this *Guide* uses American English and the style conventions required of official U.S. Department of Education publications.

Identifying Data Productivity in the Crosswalk

The amount of data collected under a specific program code, at a given level, is a piece of information that can be important to users of a database who wish to study or interpret patterns of significant activity. Data collected through CCD on U.S. high school completions, and on enrollments at all grade levels, produce large counts each year due to the numbers of American students enrolled in school. IPEDS education program data, on the other hand, vary in count from year to year and from program to program. Some programs

assigned CIP codes, such as English and general business administration, are popular postsecondary concentrations at nearly all levels and generate large numbers of completions and awards annually. Others, such as professional qualifications in law and medicine, are not offered at all postsecondary levels but generate steady and fairly large completion counts at certain levels. Still other programs, including many technical and academic specializations, generate only small counts and may fluctuate from year to year. This *Guide* attempts to inform users of the most recent data patterns for each CIP code and IPEDS level in order to enhance understanding of U.S. educational activity.

Defining Significant Program Data. NCES periodically updates the CIP system to insure that data are being collected which accurately reflect what is occuring in the U.S. postsecondary universe. Data need to be collected for all programs in which there is enough activity (enrollments and completions) to justify collection efforts, both statistically and economically. The decision rules employed to do this and which are used in this *Guide* to define programs reporting significant activity are:

- *An annual production of at least 10 completions at a specific IPEDS level; and*

- *An annual production distributed over at least three institutions located in at least one state or territory.*

Three other degrees of productivity exist: programs producing *insignificant completion data* in a given year at a given level; programs producing *no completion data* in a given year at a given level, but which are known to be offered by institutions at that level; and programs for which *no data exist* at a given level because no institutions report offering such programs at the level in question.

Identifying Codes Producing Significant Data. Chapters 3-10 discuss each CIP code, at each IPEDS level, that corresponds to a particular ISCED code at each ISCED level. These chapters present a list of all CIP codes corresponding to each ISCED code and level. The CIP codes thus identified are grouped by IPEDS level to enable users of this *Guide* to see patterns in the array of data at each educational level. CIP codes for which significant data are being reported are printed in bold type, thus: **23.0101: English Language and Literature, General**. CIP codes for which insignificant data are being reported are printed in italics. thus: *16.1199: Middle Eastern Languages and Literatures, Other*. In chapters 3-10. CIP codes for which no data are being reported are not listed. Such codes are listed in the appendix, however, for they are necessary components of the master crosswalk used by data coders. Refer to the appendix for lists of these additional CIP codes and below for a discussion of how the master crosswalk is organized. For detailed information on U.S. education program codes and the U.S. coding system. refer to the *Classification of Instructional Programs: 1990 Edition* (Washington: U.S. Government Printing Office, 1991).

Treatment of Specific IPEDS Levels. Certain IPEDS levels that are included in the data system for statistical purposes do not produce much data because the degrees or other awards they represent either do not exist or are rarely earned. These levels include:

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PBC *Postbaccalaureate Certificate,*
PMC *Post-Master's Certificate,* and
1PC *First-Professional Certificate (Post-Degree).*

IPEDS level PBC is discussed in chapter 8, while levels PMC and 1PC are discussed in chapter 9. In the case of PBC and PMC awards, lists are provided of those few CIP codes for which significant data are reported. Since no 1PC awards are known to be offered, and no data are reported, this level is ignored in the chapter 9 data presentations. All three levels are included in the Master Crosswalk for statistical and coding purposes (see appendix).

At the sub-bachelor's degree level the IPEDS data collection system identifies four levels:

LT1 *Postsecondary Award, Certificate, or Diploma of Less Than One Academic Year,*
LT2 *Postsecondary Award, Certificate, or Diploma of At Least One but Less Than Two Academic Years,*
Asc *Associate's Degree,* and
LT4 *Postsecondary Award, Certificate, or Diploma of At Least Two but Less Than Four Academic Years.*

Each of these levels reports substantial data and represents a different program level, and each is included in the Master Crosswalk (see appendix). However, these four levels may also be viewed as encompassing two broad levels of education. Short programs leading to no degree or the equivalent, but which may award certificates or diplomas, correspond to both levels LT1 and LT2. Longer programs that lead to an associate's degree or the equivalent correspond to levels Asc and LT4. Because data users may be more interested in these broad educational levels and patterns, and for reasons of space and cost, levels LT1/LT2 and Asc/LT4 are combined and discussed together in chapter 7. In each case, programs reporting significant data at either or both of the combined levels are presented. These levels are treated separately for coding and statistical purposes.

Appendix Conventions

Reading the Crosswalk Appendix. The master crosswalk matrix is presented in the appendix. It is subdivided into eight sections corresponding to each ISCED Level. Each section is organized by the ISCED broad codes contained within it, with the program group codes listed under each broad code in numerical order. The titles of these ISCED codes are not given in the appendix since they have been presented in chapters 3-10 and are known to users familiar with the international system. To the right of each ISCED code, in numerical order, are presented the U.S. program codes corresponding to it. These will be either CCD or CIP codes, depending on the educational level. At the top of each section are listed the CCD or IPEDS level codes corresponding to the ISCED Level indicated.

Users of the appendix are reminded that it contains all potential crosswalkable program codes at all levels, not just those for which data are currently being reported. This approach is required to enable data coders to possess a map of every possible data placement. If U.S. institutions indicate that a specific program is offered at a given level, then a position for any resulting completion data must be assigned. (If no U.S. institutions report offering a program at a particular ISCED level, it is not listed in the appendix at that level.) It would be methodologically improper to introduce bias or otherwise limit the crosswalk based on assumptions about data significance which might vary over time or due to other valid circumstances. Users interested in discovering which ISCED or U.S. programs are actually generating consistently high numbers of completions at different levels are invited to consult the discussions in chapters 3-10.

CIP Codes in the Appendix Followed by an Asterisk (*). CIP codes listed in the crosswalk appendix which have an asterisk (*) located behind them are codes for which NCES is currently collecting significant data. (Refer to the definition of significant data elsewhere in this chapter.)

Use of the Symbol "N/A." Wherever this symbol appears in the crosswalk matrix, it stands for "not applicable," which means that no U.S. data exist which correspond to the ISCED code in question.

ISCED Codes Preceded by a Carrot (>). ISCED codes listed in the crosswalk appendix which are preceded by a carrot (>) are codes which have had to be inserted using ISCED rules in order to report U.S. data corresponding to that code at the level in question. Thus, an ISCED code (less the level number) may have a carrot at some levels but not at others. (Refer to chapters 3-10 for discussions of inserted ISCED codes.)

Decision Rules

Chapter 3 (see below) discusses how the crosswalk's decision rules have been implemented in specific situations. The rules themselves are set forth here.

- *Where ISCED rules and organization are explicit and permit no flexibility, they govern the placement of U.S. codes.* This decision rule is necessary in order to produce data categories that make sense to international users who depend upon ISCED concepts, and it means that several U.S. education program Series must be broken up.

- *Where ISCED rules and organization permit flexibility, U.S. data standards are used.* The designers of ISCED expect that each country that uses it will need to work out compromises between domestic data reporting standards and the ISCED system, and ISCED rules generally allow for such adaptations.

- *Wherever possible, this crosswalk places U.S. data codes consistently across*

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ISCED levels. In other words, if a CIP code is placed under ISCED code 14 (teacher education) at one level (such as level 6), it is placed under code 14 at all other levels where data exist (such as level 7—graduate degrees, in this example).

● *The ISCED rule that permits the insertion of codes at levels other than those provided in the system is invoked wherever necessary in order to report U.S. data in the most accurate and consistent manner.* For example, ISCED has a code for foreign language interpreting at level 5 (corresponding to U.S. community and junior college), but not at level 6 (4-year college) or 7 (graduate school). All reported U.S. degree programs in interpretation and translation are offered at level 6 or 7, not level 5. Using the ISCED code insertion rule, we insert the code for interpreting at the higher levels in order to accurately report U.S. practice.

● *Where the ISCED system is inconsistent in assigning programs to its program groups at different levels, this problem is resolved by interpreting each ISCED program group, across all levels, as corresponding to the sum of all of the programs which are assigned to it at all levels.* The ISCED system contains numerous situations in which the same program group code is assigned to different levels, but the exact title and the contents differ from level to level. An example is ISCED program group code 5002, which ranges from auxiliary health workers at level 3 to public health professionals at level 6. In order to maintain data consistency, cases like this example are dealt with by identifying the common thematic program grouping that cuts across levels. Thus, the example—5002—is interpreted to mean public/community health programs at various levels.

● *In order to be accurate and consistent, both the crosswalk discussion presented in chapter 3, part 2 and the crosswalk matrix presented in the appendix are keyed to 6-digit CIP codes.* In some cases, however, entire CIP 2- or 4-digit Series may be crosswalked to a given ISCED code. This situation occurs in cases where all the 6-digit CIP codes for a particular Series happen to correspond to the same ISCED Program Group Code at the same ISCED Level.

● *The appendix presents a crosswalk of all CIP codes for which data may be reported under a given ISCED code at a given ISCED level, not merely those currently producing significant data.* This rule must be applied to the master crosswalk matrix in order to permit data coders and statisticians to accomodate all possible data elements and to anticipate data pattern fluctuations.

Crosswalking Data from ISCED to U.S. Systems

In the majority of cases, data presented in an ISCED format may be directly crosswalked into comparable U.S. formats. The major limitation is that it is possible only to crosswalk ISCED data into broad groupings of U.S. grade and degree levels. Program categories, whether based on CCD or CIP, are basically similar with few exceptions. The problems categories are:

- Vocational Home Economics (CIP 20.), split up with certain 6-digit codes assigned to trades and industries and service categories;

- Marketing Operations (CIP 08.), split up among business and service categories;

- Agriculture (CIP 01. and 02.) combined; and

- Trades and Industries (CIP 47., 48., and 49.) and Personal Services (CIP 12.) rearranged to a limited degree (primarily lumping "other" codes together and splitting off individual codes).

Other minor rearrangements occur, such as when ISCED treats as a separate data element what is a single 6-digit CIP code but does not split the code away from the rest of its Series and position it elsewhere.

Collectively, these differences result in a loss of data specificity and, from a U.S. perspective, data quality. They do not render crosswalking from ISCED impossible, however, so long as it is recognized that some data treated in separate detail in the U.S. will be impossible to isolate, and two data categories — vocational home economics and marketing operations — will not be reconstructable at all. In most other cases a crosswalk from ISCED will produce comparable data categories and will thus be usable for purposes of general descriptions and trend analyses. Comparisons of different countries' data, once both are crosswalked into ISCED format, are not affected by these problems as long as each set of data to be compared has been crosswalked according to a similar interpretation of the ISCED system.

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CHAPTER 3

Crosswalking ISCED Broad Field Codes

This chapter contains a discussion, in order, of every ISCED broad field code and the U.S. codes that correspond to it. The rationales for each crosswalk decision are explained. Refer to chapters 4-10 for a discussion of each ISCED program group code by level. CIP codes and Series are crosswalked to ISCED codes only when U.S. data for them exist and ISCED provides a place for the data to be reported. This means that while all CIP codes are accounted for somewhere in the crosswalk, they are not all used at each ISCED level.

01. General Programmes

ISCED uses the 01 field to report any data on general or undifferentiated instructional programs at each level. Such data are operationally defined as programs that cannot be located in any specific category, nor be located in the "other" category which is reserved for both specific programs not elsewhere classified and unknowns.

For example, a general or undifferentiated program in art (CIP 50.0701) would not belong in the 01 field, since it is a type of art program; it would be reported under broad field 18, fine and applied arts. Likewise a program in science, technology and society (CIP 30.1501), for which no specific ISCED field assignment exists at any level, would be reported under field 89 — other programs, because it is a specific known type of program. A liberal or general studies program (CIP Series 24.01) would be reported under ISCED field 01, however, because no other assignment can be made for it and it specifically refers to general programs of study.

Field 01 is also used to report aggregate data on educational activities that are not defined by program or subject, such as data on enrollments and completions at specific grade levels and degree levels. An example would be all CCD data, since these are not program-specific. CCD data are level-specific, however, and thus aggregate CCD data corresponding to the appropriate ISCED level would be reported for that level under the 01 field code. Likewise, CCD and IPEDS data referring to generic secondary or postsecondary diplomas or certificates would be reported here, since they are not program- or subject-specific.

The 01 field cuts across all ISCED levels and is applicable wherever there is a need to report data on aggregate, general, or generic activity.

08. Literacy Programmes

The ISCED system considers all data on literacy programs, whether for children or adults, as corresponding to primary-level school instruction. ISCED includes what are called functional

literacy programmes — programs intended to provide skills beyond basic reading and writing — under the 08 field. As a consequence of the assumption made by ISCED's designers regarding the education level to which literacy education corresponds, this field code appears only at ISCED Level 1, primary education (U.S. grades 1-6).

In the United States, literacy instruction is not organized in such a way as to provide data only at the equivalent of ISCED Level 1, nor do Americans define the concept of literacy (basic or functional) as something equivalent to a single level of regular schooling. U.S. literacy programs involve both basic education for persons who have never received instruction and remediation for those whose level of education or performance is inadequate. The programs are intended for individuals in either category at all age levels who are outside the regular school system. The programs range from the most basic reading and writing skills to functional and academic literacy skills that are equivalent to senior high school. Since no literacy program completion data are currently collected, however, no crosswalks at levels other than ISCED Level 1 are presented.

14. Teacher Training and Education Science Programmes

Under this field are reported all data, at each appropriate level, on programs in teacher education and the various educational research fields. (Educational administration is reported separately — see broad field 34.)

18. Fine and Applied Arts Programmes

Visual and performing arts programs are included under this field, as are applied/commercial art programs, handicrafts programs, and programs in the administration of the arts. (Arts administration is not included under ISCED broad field 34.)

22. Humanities Programmes

ISCED includes history and archaeology under the humanities, whereas CIP assigns them to the social sciences (Series 45.), while noting that they are not, strictly speaking, social science programs. CIP Series 45. is entitled *Social Sciences and History* in order to make the distinction clear. The U.S. placement of these programs is due to the frequent practice of offering them under the umbrella of the social sciences in U.S. educational institutions. Nevertheless, it is recognized that persons completing history and archaeology programs differ in their approach — as humanists or social scientists. For purposes of international reporting, U.S. data for these programs will be reported under ISCED field 22.

The academic study of religion as a humanistic discipline is not reported under field 22 in ISCED. It is separated from the humanities and combined with programs that prepare clergy and other religious vocations (see field 26 below).

26. Religion and Theology Programmes

As noted under field 22 above, the academic and the professional study of religion are combined in ISCED data reporting. Some countries do not report data on religion programs in such a way as to distinguish preparation for religious careers from other types of religious scholarship, either because the programs are frequently offered within the same faculties or because the presence of an officially recognized faith confuses the provision of creed-specific instruction by religious authorities with other forms of religious study. The United States does separate these two distinct types of religious study. For ISCED reporting purposes, however, data collected via IPEDS and CIP on religion and theology program activity (CIP Series 38.02, 38.99, and 39.) are combined and reported under broad field 26.

30. Social and Behavioural Science Programmes

The ISCED classification of programs under field 30 differs in detail from that used in CIP, but these differences are relatively minor. Criminology, which is classified in the United States as a social science, is reported in ISCED together with the occupational preparation of law enforcement professionals. Urban studies —as opposed to the professional field of urban planning —does not exist in ISCED. For purposes of an ISCED crosswalk, U.S. criminology program data are reported under field 89, urban studies is placed under "other" in field 30, and demography is inserted for ISCED Level 6 as well as for Level 7. Psychology program data are also reported under field 30, as are multidisciplinary behavioral science program data. The latter two program categories are not treated as social sciences in U.S. domestic data reporting. (Psychology and related behavioral science fields include a number of clinical practice specialties. Their research orientations are increasingly experimental and allied to biological and medical studies, and program curricula reflect these differences from the traditional social sciences.)

34. Commercial and Business Administration Programmes

Field 34 includes business administration and administrative services programs of the type reported under CIP Series 52., but also public administration, certain types of institutional administration, and those marketing operations programs (see CIP Series 08. and 52.) which are not specific to product-oriented retailing activity (see field 78 below).

Public administration and related programs —other than social work —are treated as a branch of administration under ISCED, and appropriate U.S. data will be reported under field 34. The ISCED concept of "institutional administration" is defined as including the administration of hospital and health facilities, educational institutions, homes (for the aged, orphans, indigents, etc.), and social service organizations (but not the field of social work). This category may be distinguished from public administration in that it focuses on programs that prepare facilities and services managers rather than government administrators, policy

analysts, or public finance experts. Several U.S. programs offered in widely differing settings must be combined in order to develop a data category corresponding to ISCED's institutional administration subfield.

38. Law and Jurisprudence Programmes

The U.S. system of legal education and its relationship to legal occupations is different from that of nearly every other country. This ISCED field reflects the widespread approach to legal education as a first-degree or undergraduate postsecondary subject and the provision of specific programs for the different occupations within the legal system (judge, magistrate, trial attorney, solicitor, prosecutor, notary, etc.). American legal preparation, in contrast, is at the level of post-bachelor's degree education; it is generic to all types of jobs requiring an attorney qualification and not specific to any of them. The only types of legal education below the graduate level in the United States are undergraduate pre-law school preparatory programs and training programs for paralegals and other support staff. Since ISCED field 38 does not follow the organization of U.S. legal education, it is difficult to place U.S. data accurately into the existing ISCED subfield categories.

To report U.S. data as accurately as possible, a code for "general" law programs must be inserted at level 7 (a general code appears in the basic ISCED system only at level 6). Most of the specific ISCED subfields are ignored, either because they are too narrowly focused on program types that do not exist in the U.S. (such as magistrates and *notaires*) or because they are not disaggregated in U.S. data reporting.

42. Natural Sciences Programmes

Field 42 presents no crosswalk problems. U.S. and ISCED concepts of what constitute the natural sciences are in agreement, comprising the biological and physical science programs. U.S. scientific technology programs (see CIP Series 41.) are reported under ISCED field 52 (see below).

46. Mathematics and Computer Science Programmes

As with field 42, there is also broad agreement between the U.S. and ISCED systems on the contents of this data category. The only difference is that ISCED places actuarial science in mathematics, whereas CIP places it under business. (In the United States this is a technical research specialty that supports businesses which use risk analyses, such as insurance.) For purposes of international reporting, actuarial science data will be reported here.

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50. Medical and Health-Related Programmes

As already noted (see field 34, above), the programs dealing with the institutional administration of health facilities are treated as a subfield of business administration in ISCED. Health-related administrative and office support programs, such as those preparing office managers and records specialists, are also reported under field 34 for ISCED reporting purposes. Administrative and supervisory programs that have a clinical care component, however, such as ward clerks and supervisors, are reported under ISCED field 50.

ISCED does not provide a subfield code for reporting medical laboratory technicians. At Level 6 ISCED introduces a program group code for medical technologists that clearly incorporates laboratory medicine. To avoid inconsistent data assignment across levels, and in order to provide a logical place for data on programs that train persons who assist medical technologists and otherwise work in medical laboratories, the Level 6 medical technology code is inserted at other levels.

Other problems in field 50 involve the need to insert various subfield codes at additional levels in order to reflect U.S. educational practice accurately (for example: U.S. medicine degrees are graduate-level awards) and to place certain CIP Series (such as communications disorders, chiropractic, osteopathy, and optometry) in the "other" subfield since ISCED assigns them no code.

Field 50 in ISCED is reserved for human medicine. Veterinary medicine data are classified in ISCED as part of agriculture, and U.S. data for veterinary medicine programs are reported for ISCED purposes under field 62.

52. Trade, Craft, and Industrial Programmes

The placement of trades and industries program data in ISCED does not match U.S. practice. On the one hand, ISCED places some programs in this broad field that CIP places under vocational home economics (Series 20.), chiefly those having to do with commercial clothing and textile worker programs. On the other hand, ISCED places transportation worker programs under broad field 70 and programs in engineering drawing (drafting) under broad field 54, engineering. For these reasons, U.S. trades and industries program data cannot be directly crosswalked to ISCED field 52 but must be split up according to where they are located in the international classification system.

54. Engineering Programmes

This ISCED field encompasses both engineering and engineering-related technologies, as well as drafting programs. There are no problems with crosswalking corresponding U.S. program data, and the mix of program data that results is not really misleading, since ISCED data are divided into levels. The historical difference in program level that divided engineering

technology from engineering has been blurring for some time. Many engineering technology programs are now offered at the 4-year level as knowledge requirements have increased, and vertical articulation of programs is increasingly common (U.S. engineering technology and engineering programs are monitored by the same professional accrediting association). Thus the apparent confusion of program Series data is fairly reflective of current developments in the fields concerned.

58. Architecture and Town Planning Programmes

The European term "town planning" refers to what is known in the United States as urban planning and design. Aside from that minor clarification and the need to insert a "general" code at additional levels, there are no crosswalk problems between this ISCED field and the corresponding U.S. program codes in CIP Series 04. and 30.

62. Agricultural, Forestry, and Fishery Programmes

A major change from U.S. data reporting practice is the reporting of veterinary medicine data under this field rather than under the medical and health field (see 50, above). The data for U.S. commercial fishing programs are also reported here, rather than under the transportation field (CIP Series 49.). Otherwise, the primary difference between this ISCED field and the corresponding CIP Series is that ISCED collapses the detailed U.S. program breakouts into a few codes (seven for agriculture and one each for forestry and fishing). Under forestry, ISCED also places data on programs in wildlife management.

66. Home Economics (Domestic Science) Programmes

The subtitle to this ISCED field reflects the difference between international and U.S. practice, and the underlying conceptual difference in how this field is defined. ISCED defines home economics programs as pertaining to the preparation of skilled homemakers, parents, and consumers, and the study of related research questions. It also incorporates two aspects of vocational home economics: the training of institutional food-service personnel and training for occupations related to child care. All else, if it is occupationally specific or professional, is placed elsewhere in the ISCED system and not regarded as home economics per se. Thus programs related to career preparation in housing and interiors, clothing and textiles, hospitality, professional housekeeping services, and family counseling, all of which are treated to some extent as home economics fields in U.S. practice, are reported by ISCED under other field codes. Some of the data are moved to field 52; others to fields 78 and 89.

70. Transport and Communications Programmes

Field 70's title may be misleading to U.S. users; it really refers only to transportation

programs and related physical logistics subjects (i.e., the term "communications" in this context does not mean mass communications, journalism, or broadcasting — see broad field 84). All the program codes in CIP Series 49. are reported here, except for construction equipment operators and marine mechanics and repairers (reported under broad field 52) and commercial fishing operations (reported under broad field 62). Two ISCED program groups under this broad field, railway communications and postal services, have no U.S. counterparts.

78. Services Trades Programmes

A variety of U.S. program codes are reported under this ISCED field rather than where they are placed in CIP. This broad field encompasses programs in the hospitality field, such as culinary arts, restaurant operations, travel and tourism operations, and professional custodial services; personal services such as cosmetology and funeral services; laundry and drycleaning services; and retail operations in specific product lines and industries. Consequently, a number of programs in CIP Series 08. (marketing operations), 12. (personal services), and 20. (vocational home economics) are reported internationally under ISCED field 78.

84. Programmes in Mass Communications and Documentation

This ISCED broad field is where data on journalism, broadcasting, and other communications programs are reported (CIP Series 09. and 10.); it is also the location of data for library science (CIP Series 25.) and museology/museum studies (CIP code 30.1401). The exception is photographic technology (CIP code 10.0103), which is reported in ISCED under field 18.

89. Other Programmes of Education

ISCED's "other" category is peculiar in that it contains not only the subfield for genuinely unknown or not-elsewhere-classified programs but also a number of precisely identified program areas. The latter includes criminology, law enforcement occupations, military programs, firefighting programs, social work and related services, physical education and recreation, and environmental studies, all of which are assigned subfield codes. U.S. program data corresponding to these identified ISCED subfields are reported here, as are data on U.S. programs which have no other place to be reported. Where necessary, subfield codes in this broad field are inserted at different levels to reflect U.S. practice.

CHAPTER 4

Crosswalking Data at Levels 0 and 1:
Education Preceding the First
Level and at the First Level

Education in the United States corresponding to ISCED level 0 includes all structured learning experiences prior to the first grade (level 0); for ISCED level 1 it includes grades 1-6. At the preschool level and in the early grades, U.S. curricula and school schedules are not always organized by subject in patterns that resemble the structure of upper elementary, secondary, and postsecondary education. The concept of specialized or subject-specific concentrations are virtually unknown in grades PK-6 in the United States except for the Individual Education Plans prepared for children with special learning needs. The only regularly collected program-related data for these grades are statistics on the number of students enrolled in each specific year and grade. These data are collected annually by the CCD survey system.

0. Education Preceding the First Level

The CCD surveys report data on prekindergarten and kindergarten enrollments which are sometimes referred to as preprimary, preschool, or early childhood education. No specific program types are recognized at this level, which pertains only to preschool programs that prepare children to begin elementary (primary) school.

001. General Programmes for Children of Pre-Primary Age

This broad field code is the only one under ISCED level 0 and the one into which all CCD data pertaining to Level 0 should be crosswalked, or vice versa. The following CCD level codes correspond to ISCED Code 001:

CCD Level	Title/Description
D01	*Pre-Kindergarten*
D02	*Kindergarten*

1. Education at the First Level

ISCED level 1 corresponds to U.S. grades 1-6 and also is where data on basic adult literacy programs are assumed to belong under the ISCED system. The ISCED operational definition of this level allows for 1-year variations at each parameter, thus permitting data to be reported for students entering school at ages 5, 6, or 7 and topping out of this level at ages 11, 12, or 13. This flexibility, which is designed to accommodate various national practices, is also convenient in terms of the internal variety of U.S. elementary enrollment patterns.

The CCD does not survey the subject-matter contents or course-taking activity of U.S. elementary school curricula or students. Furthermore, the nature of U.S. elementary education generally precludes the capture of any such data, since no specialization exists at this educational level in the United States. Not until the upper elementary grades (and then only in a few schools, districts, and states) does the curriculum begins to include separate courses that introduce general vocational topics. Actual occupational preparation is not offered in the United States at the elementary school level. No academic specialization exists in grades 1-6 in most U.S. schools.

101. General Elementary Programmes

This broad field code is the place in the ISCED system for reporting data on U.S. regular school enrollments in grades 1-6, according to corresponding CCD codes. No adult literacy data should be reported under this broad field code (see 108, below).

10100. General Elementary Programmes. All CCD elementary school enrollment data for grades 1-6 are reported under this ISCED program field code. ISCED does not break out elementary level data by type of school track (special education, etc.), so all data under CCD code D15 (ungraded education) should also be reported here. The following CCD level codes correspond to ISCED Code 10100:

CCD Level	Title/Description
D03	*Grade 1*
D04	*Grade 2*
D05	*Grade 3*
D06	*Grade 4*
D07	*Grade 5*
D08	*Grade 6*
D15	*Ungraded*

108. Literacy Programmes

This broad field code is the place to report adult literacy data. Regular elementary education data do not belong here, but rather under 101/10100 above.

ISCED divides literacy program data into two categories, depending on whether the covered subject matter extends beyond the teaching of reading and writing to other knowledge and skills. NCES does not distinguish the types of literacy programs as ISCED does, and literacy program data currently are not collected on a regular basis. Since they would be similar to programs offered in other contexts, U.S. literacy programs that are offered for credit and that also prepare individuals for work would presumably be reported using appropriate occupationally specific CIP codes. Non-credit program data, such as that described in CIP Series 32., Basic Skills, are not regularly collected at present. Nevertheless, any program data on basic literacy that might be reported in some way using CIP Series 32. would belong in this ISCED broad field (10811 would be the most appropriate ISCED program group code for undifferentiated U.S. data as defined in CIP code 32.0108).

10811. Simple Literacy Programmes. Any data collected by NCES would be reported under this ISCED program group code. The following CCD level codes correspond to ISCED Code 10100:

CIP Code	Title/Description
32.0108	*Reading, Literacy, and Communication Skills*

10821. Functional Literacy Programmes. The United States does not define or collect program data on functional literacy in a way that corresponds to this program group code. No data should be reported here.

Other ISCED Codes at Level 1

Because the CCD does not survey the subject-matter contents of U.S. elementary school curricula, because other periodic surveys do not capture such data frequently enough to justify provision of a crosswalk, and because the concepts of academic or vocational specialization are meaningless at this level, the following ISCED broad fields and program groups are ignored for U.S. crosswalk purposes at ISCED level 1:

126. Religion and Theology Programmes

12600. Religion and Theology Programmes

134. Commercial Programmes

13401. General Commercial Programmes
13411. Specialized Commercial Programmes

150. Elementary Public Health Programmes

15000. Elementary Public Health Programmes

152. Trade, Craft and Industrial Programmes, n.e.c.[22]

15201. General Trade and Craft Programmes
15212. Food and Drink Processing Trades Programmes
15216. Building Trades Programmes, n.e.c.
15222. Electrical Trades Programmes
15232. Metal Trades Programmes
15242. Mechanical and Mechanical Repair Trades Programmes
15262. Woodworking Trades Programmes
15272. Leather Trades Programmes
15274. Textile Trades Programmes
15276. Clothing and Related Trades Programmes
15299. Other Trade, Craft and Industrial Programmes, n.e.c.

162. Agricultural, Forestry and Fishery Programmes

16202. Agricultural Programmes
16262. Forestry Programmes
16272. Fishery Programmes

166. Home Economics (Domestic Science) Programmes

16601. General Home Economics Programmes
16604. Home Economics Programmes with Emphasis on Dressmaking and Sewing
16608. Home Economics Programmes with Emphasis on Cooking, Food Preservation
        and Nutrition
16622. Home Economics Programmes with Emphasis on Child Care
16622. Other Home Economics Programmes

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[22] The abbreviation "n.e.c." stands for "not elsewhere classified," and appears in ISCED titles for program groups capturing data related to, but not the same as, data placed under other ISCED codes.

178. Service Trades Programmes

17812. Barbering and Beauty Culture Programmes
17822. Hotel and Restaurant Trades Programmes
17842. Laundry and Dry-Cleaning Trades Programmes
17899. Other Service Trades Programmes

189. Other Programmes of Education at the First Level

18900. Other Programmes of Education at the First Level

CHAPTER 5

Crosswalking Data at Level 2:
Education at the Second
Level, First Stage

U.S. school districts and states do not employ the concept of lower, or first stage, secondary education as it is used in some other countries. Quite a few U.S. jurisdictions do not recognize a separate level of education falling between elementary and secondary education. For those that do, this intermediate level is sometimes regarded as a form or extension of upper elementary education and given names like intermediate school or middle school. In other places, it is regarded as a preliminary or transitional stage of secondary education and given names such as junior high school. The U.S. grade levels which correspond to ISCED level 2 vary. U.S. data reported under the operational definition of level 2 include grades 7-9, a grouping derived from the operational definition of this ISCED level. Users of this crosswalk should be cautioned, however, that U.S. data reported under ISCED level 2 are organized thus for comparative purposes only and do not necessarily correspond to an educational level recognized throughout the United States.

As with elementary education data, there are no routinely collected subject-matter or activity data pertaining to U.S. middle/junior high school curricula. It should also be noted that occupationally oriented vocational programs are not generally offered in the U.S. in the grades corresponding to ISCED level 2. Exploratory home economics and technology education (formerly industrial arts) courses are taught, but these subjects are not designed to offer actual vocational preparation. (Also, individual courses are not equal to an entire school program.) Work eligibility in the United States generally requires at least the completion of compulsory schooling (staying in school until around age 16, depending on the state) since child labor laws and related policies restrict the number of hours per day or week minors may work, what types of jobs they may hold, and specify the amount and kind of on-the-job supervision they require. Most employers of full-time workers and nearly all licensed occupations and trades require at least a high school diploma or the equivalent as an entry-level qualification.

2. Education at the Second Level, First Stage

ISCED level 2 corresponds to U.S. grades 7-9, occasionally referred to in the United States as middle school or junior high school. As with level 1, the ISCED operational definition of this Level allows for age variation at each parameter, thus permitting data to be reported for students entering grade (year) 7 at ages 11 or 12 and topping out of this level at ages 15 or 16.

201. General Programmes Containing Little or No Technical Education

This broad field code is the place in the ISCED system for reporting data on U.S. regular school programs and enrollments in grades 7-9.

20100. General Programmes Containing Little or No Technical Education. Since no program-specific data are collected by CCD, it is appropriate to report all enrollment data for grades 7-9 here. The following CCD level codes correspond to ISCED code 20100:

CCD Level	Title/Description
D09	*Grade 7*
D10	*Grade 8*
D11	*Grade 9*

Other ISCED Codes at Level 2

As with U.S. grades 1-6 — corresponding to ISCED level 1 — the absence of CCD data collection on course-taking activity, the lack of other regularly collected data of this kind, and the fact that specialization does not occur in the grades corresponding to ISCED level 2 mean that the following ISCED broad fields and program groups are ignored for U.S. crosswalk purposes:

214. Teacher-Training Programmes

21401. General Teacher-Training for Elementary School Teaching
21408. Teacher Training for Specialists Such as Those in Vocational or Adult Education Programmes

226. Religion and Theology Programmes

22600. Religion and Theology Programmes

234. Commercial Programmes

23401. General Commercial Programmes
23404. Typing and Shorthand Programmes
23439. Other Commercial Programmes

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250. Health-Related Auxiliary Programmes

25002. General Medical Auxiliary Programmes
25012. Nursing Programmes
25015. Midwifery Programmes
25099. Other Health-Related Auxiliary Programmes

252. Trade, Craft and Industrial Programmes, n.e.c.

25201. General Programmes with a Trade, Craft or Industrial Emphasis
25212. Food and Drink Processing Trades Programmes
25216. Building Trades Programmes, n.e.c.
25222. Electrical Trades Programmes
25232. Metal Trades Programmes
25242. Mechanical and Mechanical Repair Trades Programmes
25262. Woodworking Trades Programmes
25264. Heating, Air Conditioning and Refrigeration Trades Programmes
25266. Materials Handling and Earth-Moving Equipment Operating Programmes
25272. Leather Trades Programmes
25274. Textile Trades Programmes
25276. Clothing and Related Trades Programmes
25278. Printing and Bookbinding Trades Programmes
25282. Laboratory Assistant Programmes
25299. Other Trade, Craft and Industrial Programmes, n.e.c.

254. Engineering Programmes

25402. Programmes in Surveying
25406. Programmes in Engineering Drawing
25422. Electrical and Electronics Engineering Technician Programmes
25426. Industrial Engineering Technician Programmes
25436. Mining Engineering Technician Programmes
25452. Agricultural, Forestry and Fishery Engineering Technician Programmes
25499. Other Engineering Technician Programmes

262. Agricultural, Forestry and Fishery Programmes

26202. General Agricultural Programmes
26203. Animal Husbandry Programmes
26206. Horticultural and Gardening Programmes
26208. Crop Husbandry Programmes
26249. Other Programmes in Agriculture

26262. Forestry Programmes
26272. Fishery Programmes

266. Home Economics (Domestic Science) Programmes

26601. General Programmes in Home Economics
26612. Programmes with Emphasis on Nutrition
26622. Programmes with Emphasis on Child Care
26699. Other Home Economics Programmes

270. Transport and Communications Programmes

27004. Seamen's Programmes
27006. Railway Operation Programmes
27008. Road Motor Vehicle Operation Programmes
27026. Postal Services Programmes Except Electronics Equipment Installation and
            Servicing
27029. Other Communications Programmes

278. Service Trades Programmes

27812. Barbering and Beauty Culture Programmes
27822. Hotel and Restaurant Trades Programmes
27862. Retailing Programmes
27872. Tourist Trades Programmes
27899. Other Service Trades Programmes

289. Other Programmes of Education at the Second Level, First Stage

28900. Other Programmes of Education at the Second Level, First Stage

CHAPTER 6

Crosswalking Data at Level 3:
Education at the Second
Level, Second Stage

Many of the points referred to in Chapter 5 concerning U.S. lower secondary education or the equivalent also apply to upper secondary education, commonly referred to as senior high school. As with ISCED level 2, many U.S. jurisdictions do not recognize a second stage of secondary education, and thus the division employed in ISCED is an artificial one for them. The jurisdictions which do recognize a junior/senior high school division vary as to the grade at which the senior level commences (sometimes grade 9 and sometimes 10).

Also, as with other grades in the U.S. PK-12 sequence, subject-matter or course-taking activity data are not routinely collected for U.S. senior high school programs.[23] Vocational preparation is offered at this level in those trades and occupations for which a high school diploma is considered adequate preparation under the regulations of a specific state's licensing authorities. High school vocational education also serves to prepare students for postsecondary occupational programs or employer training. It is also possible for high school graduates to have accumulated considerable credit in certain academic subjects (mainly mathematics, science, English, and foreign languages) preparatory to entering undergraduate postsecondary education.

3. Education at the Second Level, Second Stage

ISCED level 3 corresponds to U.S. grades 10-12 based upon the ISCED operational definition for this level. As with levels 1 and 2, the ISCED operational definition of this level allows for age variation at each parameter, thus permitting data to be reported for students entering grade (year) 10 at ages 16 or 17 and topping out of the level at ages 18 or 19.

301. General Programmes Containing Little or No Technical Education

This broad field code is the place in the ISCED system for reporting data on aggregate U.S. senior high school enrollments and completions of high school diploma and certificate programs.

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[23] While data on subjects studied at this level are not currently collected, a classification system for U.S. high school subject matter does exist. See Denise Bradby, Karen A. Levesque, Robin R. Henke, and Gerald Malitz, *A Standard National Course Classification System (Draft)*, (Washington: National Center for Education Statistics, January 1993).

30101. General Programmes with No Special Subject Emphasis. Since no program-specific data are collected by CCD, it is appropriate to report here all enrollment data for grades 10-12 and all high school diploma earners. The following CCD level codes correspond to ISCED Code 30101:

CCD Level	Title/Description
D12	*Grade 10*
D13	*Grade 11*
D14	*Grade 12*

As do the following CCD program completion codes:

CCD Code	Title/Description
E01	*Regular Diploma*
E02	*Other Diploma*
E03	*High School Equivalence Recipients*

In addition, this ISCED code is the appropriate place to report any data which may be collected under the following CIP codes:

CIP Code	Title/Description
53.0101	*Regular (General) High School Diploma Program*
53.0102	*College Preparatory High School Diploma Program*
53.0103	*Vocational High School Diploma Program*
53.0104	*Honors/Regents High School Diploma Program*
53.0199	*High School/Secondary Diplomas, Other*
53.0201	*High School Equivalence Certificate*

30104. General Programmes with Special Emphasis on the Humanities and Social Sciences. No regularly collected U.S. data correspond to this program group code.

30108. General Programmes with Special Emphasis on Mathematics and Natural or Applied Science. No regularly collected U.S. data correspond to this program group code.

30199. General Programmes with Special Emphasis on Other Non-Technical Subjects. This program group code is the appropriate place to report enrollment data for U.S. high school programs that do not result in high school diplomas or the equivalent. The following CCD completion codes correspond to ISCED Code 30199:

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CCD
Code            Title/Description

E04             Other High School Completers
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In addition, this ISCED code is the appropriate place to report any data which may be collected under the following CIP codes:

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CIP Code        Title/Description

53.0202         High School Certificate of Competence
53.0203         Certificate of IEP Completion
53.0299         High School/Secondary Certificates, Other
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Other ISCED Codes at Level 3

While specific vocational subject-matter preparation is recognized at the equivalent of ISCED level 3 in some U.S. jurisdictions, this is not a universal practice and no national data are regularly collected relating to such specializations. Therefore, the following ISCED broad fields and program groups are ignored for U.S. crosswalk purposes:

314. Teacher-Training Programmes

31401. General Teacher-Training Programmes
31408. Teacher Training with Specialization in a Specific Vocational or Practical Subject
31412. Teacher Training for Pre-School and Kindergarten Teachers
31416. Teacher Training for Teachers in Adult Education
31422. Teacher Training for Teachers of Handicapped Children
31499. Other Specialized Teacher Training Programmes

318. Fine and Applied Arts Programmes

31804. Programmes in Drawing and Painting
31812. Programmes in Handicrafts
31822. Programmes in Music
31899. Other Programmes in Fine and Applied Arts

326. Religion and Theology Programmes

32600. Religion and Theology Programmes

334. Commercial Programmes

33401. General Commercial Programmes
33404. Shorthand-Typing (Secretarial) Programmes
33408. Clerical-Typist Programmes
33422. Programmes in the Operation of Office Machines
33432. Bookkeeping Programmes
33439. Other Commercial Programmes

350. Health-Related Auxiliary Programmes

35002. General Medical Auxiliary Programmes
35012. Nursing Programmes
35015. Midwifery Programmes
35099. Other Health-Related Auxiliary Programmes

352. Trade, Craft and Industrial Programmes, n.e.c.

35201. General Programmes with a Trade, Craft or Industrial Emphasis
35212. Food and Drink Processing Trades Programmes
35216. Building Trades Programmes, n.e.c.
35222. Electrical Trades Programmes
35232. Metal Trades Programmes
35242. Mechanical and Mechanical Repair Trades Programmes
35262. Woodworking Trades Programmes
35264. Heating, Air Conditioning and Refrigeration Trades Programmes
35266. Materials Handling and Earth-Moving Equipment Operating Programmes
35272. Leather Trades Programmes
35274. Textile Trades Programmes
35276. Clothing and Related Trades Programmes
35278. Printing and Bookbinding Trades Programmes
35282. Laboratory Assistant Programmes
35299. Other Trade, Craft and Industrial Programmes, n.e.c.

354. Engineering Programmes

35402. Programmes in Surveying
35406. Programmes in Engineering Drawing
35422. Electrical and Electronics Engineering Technician Programmes
35426. Industrial Engineering Technician Programmes
35436. Mining Engineering Technician Programmes

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35452. Agricultural, Forestry and Fishery Engineering Technician Programmes
35499. Other Engineering Technician Programmes

362. Agricultural, Forestry and Fishery Programmes

36202. General Agricultural Programmes
36203. Animal Husbandry Programmes
36206. Horticultural and Gardening Programmes
36208. Crop Husbandry Programmes
36249. Other Programmes in Agriculture
36262. Forestry Programmes
36272. Fishery Programmes

366. Home Economics (Domestic Science) Programmes

36601. General Programmes in Home Economics
36612. Programmes with Emphasis on Nutrition
36622. Programmes with Emphasis on Child Care
36699. Other Home Economics Programmes

370. Transport and Communications Programmes

37004. Seamen's Programmes
37006. Railway Operation Programmes
37008. Road Motor Vehicle Operation Programmes
37026. Postal Services Programmes Except Electronics Equipment Installation and
         Servicing
37029. Other Communications Programmes

378. Service Trades Programmes

37812. Barbering and Beauty Culture Programmes
37822. Hotel and Restaurant Trades Programmes
27862. Retailing Programmes
37872. Tourist Trades Programmes
37899. Other Service Trades Programmes

389. Other Programmes of Education at the Second Level, First Stage

38900. Other Programmes of Education at the Second Level, First Stage

CHAPTER 7

Crosswalking Data at Level 5:
Education at the Third Level, First Stage of the
Type that Leads to an Award Not Equivalent
to a First University Degree

U.S. educational programs become more specialized and differentiated at the initial postsecondary level than at previous levels, particularly in vocational education and training below the bachelor's degree. The U.S. postsecondary levels corresponding to ISCED level 5 include the following IPEDS levels:

LT1	*Postsecondary Award, Certificate or Diploma of Less Than One Academic Year*
LT2	*Postsecondary Award, Certificate or Diploma of At Least One but Less Than Two Academic Years*
Asc	*Associate's Degree*
LT4	*Postsecondary Award, Certificate or Diploma of At Least Two but Less Than Four Academic Years*

IPEDS levels LT1 and LT2 refer to short training programs which lead to a certificate or diploma of completion, which are frequently terminal and which are increasingly offered by proprietary (for-profit) trade schools as well as by traditional community and junior colleges. LT1 and LT2 are also the levels at which data are reported for short continuing education programs. Continuing education programs are frequently in advanced fields of study which are not otherwise offered at the sub-bachelor's degree level. This chapter discusses LT1 and LT2 data together. If no data are currently reported for one of the combined levels, only the level for which data are reported is listed.

Associate's degree programs and longer 3-year diploma programs (IPEDS levels Asc and LT4) may prepare students to eventually enter bachelor's degree programs at an advanced placement level (usually sophomore or junior standing) or to enter the job market directly. Data reported under levels Asc and LT4 are discussed together. If no data are currently reported for one of the combined levels, only the level for which data are reported is listed.

In several cases, a particular subject field may be offered both in a short (LT1 and/or LT2) and longer (Asc and/or LT4) version, with the choice up to the student and based upon his or her needs and ambitions. States also differ in the level and length of education or training they require of persons seeking to be licensed or promoted in particular occupations, and this variety of requirements is reflected in the large amount of data reported for the same CIP program code at different IPEDS levels.

This crosswalk presents those CIP codes corresponding to ISCED codes for level 5 for which significant recent IPEDS data are being reported.[24] Most programs included at level 5 which also appear at higher levels are introductory or general in nature at level 5. Because of articulation and transfer arrangements with 4-year institutions and programs, however, many sub-bachelor's programs carry the title of the more advanced program to which they are linked. The user is advised to be alert to this peculiarity of U.S. practice in order to avoid misinterpretation.

501. General Programmes Containing Little or No Technical Education

50101. General Programmes with No Special Subject Emphasis. This program group code should be inserted at level 5 (it appears at levels 0-3, 6 and 9) to report data accurately on U.S. programs. These programs, at these IPEDS levels, tend to be short enrichment programs without a designated subject concentration or longer programs providing the general studies component of a bachelor's degree preparatory to transfer into a 4-year institution. ISCED Code 50101 corresponds to:

LT1/LT2
24.0101: Liberal Arts and Sciences/Liberal Studies
24.0102: General Studies
**24.0199: Liberal Arts and Sciences/General Studies and
Humanities, Other**

Asc/LT4
24.0101: Liberal Arts and Sciences/Liberal Studies
24.0102: General Studies
**24.0199: Liberal Arts and Sciences/General Studies and
Humanities, Other**

514. Teacher-Training Programmes

Certified teachers in U.S. schools must, in general, possess at least a bachelor's degree or an equivalent combination of postsecondary education and work experience (if teaching a vocational subject). However, some states permit individuals to be certified for some types of teaching jobs in specific subjects (usually but not always vocational) with an associate's degree or the equivalent. Persons involved in literacy instruction (whether in English or another language) are occasionally qualified at this level, as are teacher's aides and others who assist in conducting learning activities or supervising students (such as day care providers, special education assistants, etc.).

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[24] "Significant data" means the criteria used for including a CIP code in the 1990 edition. Refer to chapter 2 for an explanation of significance as used in this context.

51401. General Teacher-Training Programmes. This program group code corresponds to data collected on unspecialized programs in education, programs that prepare classroom teaching assistants and aides, and programs that prepare students to transfer into 4-year degree programs in teacher education:

LT1/LT2	**13.0101: Education, General**
	13.1202: Elementary Teacher Education
	13.1205: Secondary Teacher Education
	13.1299: General Teacher Education, Other
	13.1501: Teacher Assistant/Aide
Asc/LT4	**13.0101: Education, General**
	13.1202: Elementary Teacher Education
	13.1203: Junior High/Intermediate/Middle School Teacher Education
	13.1205: Secondary Teacher Education
	13.1206: Teacher Education, Multiple Levels
	13.1299: General Teacher Education, Other
	13.1501: Teacher Assistant/Aide

51404. Teacher-Training Programmes with Specialization in a Non-Vocational Subject. This program group code corresponds to data collected on programs that prepare subject-specific teaching assistants or potential transfers into 4-year degree programs in the academic and other non-vocational teaching specializations:

LT1/LT2	*13.1307: Health Teacher Education*
	13.1314: Physical Education Teaching and Coaching
	13.1321: Computer Teacher Education
	13.1401: Teaching English as a Second Language/Foreign Language
Asc/LT4	**13.1302: Art Teacher Education**
	13.1305: English Teacher Education
	13.1306: Foreign Languages Teacher Education, General
	13.1307: Health Teacher Education
	13.1311: Mathematics Teacher Education
	13.1312: Music Teacher Education
	13.1314: Physical Education Teaching and Coaching
	13.1316: Science Teacher Education, General
	13.1317: Social Science Teacher Education, General
	13.1318: Social Studies Teacher Education
	13.1401: Teaching English as a Second Language/Foreign Language

51408. Teacher-Training Programmes for Teachers of Vocational Subjects. This program group code corresponds to data collected on programs that prepare subject-specific teaching assistants or potential transfers into 4-year degree programs in the vocational and related teaching specializations:

LT1/LT2	**13.1303: Business Teacher Education**
	13.1309: Technology/Industrial Arts Teacher Education
	13.1319: Technical Teacher Education
	13.1320: Trade and Industrial Teacher Education
Asc	**13.1301: Agricultural Teacher Education**
	13.1303: Business Teacher Education
	13.1308: Home Economics Teacher Education
	13.1309: Technology/Industrial Arts Teacher Education
	13.1319: Technical Teacher Education
	13.1320: Trade and Industrial Teacher Education

51412. Teacher-Training Programmes for Pre-School and Kindergarten Teachers. This program group code corresponds to data collected on programs preparing teaching assistants or potential 4-year program transfers specializing in prekindergarten (nursery school) and kindergarten instruction and child supervision:

LT1/LT2	**13.1204: Pre-Elementary/Early Childhood/Kindergarten Teacher Education**
Asc/LT4	**13.1204: Pre-Elementary/Early Childhood/Kindergarten Teacher Education**

51416. Teacher-Training Programmes for Teachers in Adult Education, n.e.c. This program group code corresponds to data collected on programs preparing teaching assistants, potential 4-year program transfers, or private instructors specializing in adult basic education (literacy, basic skills, and high school equivalency programs):

Asc	**13.1201: Adult and Continuing Teacher Education**

51422. Teacher-Training Programmes for Teachers of Handicapped Children. This program group code corresponds to data collected on programs preparing teaching assistants, potential 4-year program transfers, or private instructors specializing in the education of students with handicapping conditions or learning disabilities:

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6.3

LT1/LT2	13.1001: Special Education, General
	13.1003: Education of the Deaf and Hearing Impaired
	13.1099: Special Education, Other

Asc/LT4	13.1001: Special Education, General
	13.1003: Education of the Deaf and Hearing Impaired
	13.1006: Education of the Mentally Handicapped
	13.1008: Education of the Physically Handicapped
	13.1099: Special Education, Other

51472. Programmes in Education Science Without Teacher Training. This program group code needs to be inserted at ISCED level 5 in order to report data accurately on occasional U.S. programs that prepare instructional aides who assist curriculum specialists and that provide a general introduction to the origins and aims of the educational profession. ISCED code 51472 corresponds to:

| **LT1** | *13.0301: Curriculum and Instruction* |

| **Asc** | *13.0901: Social and Philosophical Foundations of Education* |

51499. Other Specialized Teacher-Training Programmes. This program group code corresponds to data collected on programs that prepare specialized education assistants, private instructors, or potential 4-year degree transfers whose programs do not fit under other ISCED program group codes in this field at level 5:

LT1/LT2	*13.0201: Bilingual/Bicultural Education*
	13.1399: Teacher Education, Specialized Academic and Vocational Programs, Other
	13.9999: Education, Other

Asc/LT4	*13.0201: Bilingual/Bicultural Education*
	13.1101: Counselor Education/Counseling and Guidance Services
	13.1399: Teacher Education, Specialized Academic and Vocational Programs, Other
	13.9999: Education, Other

518. Fine and Applied Arts Programmes

U.S. postsecondary programs at this level in the visual and performing arts consist of both academic and professionally oriented offerings. Much of the instructional activity takes place

in community and junior colleges, but a significant amount is located in independent schools (academies, conservatories) specializing in one or more of the arts.

51801. General Programmes of Art Studies. Programs of this type as defined in ISCED are either introductory survey and appreciation programs or professionally oriented programs that are not differentiated by medium or discipline, primarily in the visual and applied arts. This program group code corresponds to:

LT1/LT2	*50.0401: Design ana Visual Communications* *50.0701: Art, General*
Asc/LT4	**50.0401: Design and Visual Communications** **59.0701: Art, General**

51802. Programmes in the History and Philosophy of Art. This program group code should be inserted at level 5 (it appears only at level 7) to report data accurately on U.S. associate degree art history and conservation programs. It corresponds to:

LT1	*50.0703: Art History, Criticism, and Conservation*
Asc	**50.0703: Art History, Criticism, and Conservation**

51804. Programmes in Drawing and Painting. According to the ISCED definition, this program group code corresponds to data collected on printmaking programs as well as traditional drawing and painting programs at this level:

LT1/LT2	*50.0705: Drawing* *50.0708: Painting* *50.0710: Printmaking*
Asc/LT4	*50.0705: Drawing* **50.0708: Painting**

51808. Programmes in Sculpturing. Insignificant data are currently reported for the programs in sculpture at the sub-bachelor's degree level. This program group code corresponds to:

LT2	*50.0709: Sculpture*
Asc	*50.0709: Sculpture*

51812. Programmes in Handicrafts. Insignificant data are currently reported for programs emphasizing the handicrafts and related folk arts at the sub-bachelor's degree level. This program group code corresponds to:

LT1/LT2   *50.0713: Metal and Jewelry Arts*

Asc   *50.0201: Crafts, Folk Art, and Artisanry*
            50.0712: Fiber, Textile, and Weaving Arts

51822. Programmes in Music. This program group code corresponds to data collected on general sub-bachelor's degree music programs and on programs that prepare musical artists and private instructors:

LT1/LT2   **50.0901: Music, General**
            50.0903: Music—General Performance
            50.0999: Music, Other

Asc/LT4   **50.0901: Music, General**
            50.0903: Music—General Performance
            50.0904: Music Theory and Composition
            50.0907: Music—Piano and Organ Performance
            50.0909: Music Business Management and Merchandising
            50.0999: Music, Other

51832. Programmes in the Drama. This program group code corresponds to data collected on general programs in drama studies and appreciation at the sub-bachelor's degree level, as well as programs preparing performing artists and theatre production personnel:

LT1/LT2   **50.0501: Drama/Theatre Arts, General**
            50.0502: Technical Theatre/Theatre Design and Stagecraft

Asc/LT4   **50.0501: Drama/Theatre Arts, General**
            50.0502: Technical Theatre/Theatre Design and Stagecraft
            50.0599: Drama/Theatre Arts and Stagecraft, Other

51842. Programmes in Photography and Cinematography. This program group code corresponds to data collected on sub-bachelor's degree programs that prepare professional photographers; camera and equipment operators and movie set technicians; various types of studio and laboratory assistants; and students desiring a general introduction to the study and appreciation of photography and cinema:

LT1/LT2	10.0103: Photographic Technology/Technician
	50.0406: Commercial Photography
	50.0601: Film/Cinema Studies
	50.0602: Film-Video Making/Cinematography and Production
	50.0605: Photography
	50.0699: Film/Video and Photographic Arts, Other

Asc/LT4	10.0103: Photographic Technology/Technician
	50.0406: Commercial Photography
	50.0601: Film/Cinema Studies
	50.0602: Film-Video Making/Cinematography and Production
	50.0605: Photography
	50.0699: Film/Video and Photographic Arts, Other

51852. Programmes in Interior Design. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data accurately on interior design and decoration programs at the sub-bachelor's degree level. It corresponds to:

| LT2 | 50.0408: Interior Design |

| Asc/LT4 | 50.0408: Interior Design |

51899. Other Fine and Applied Arts Programmes. This program group code corresponds to data collected on a variety of arts programs which do not correspond to any other ISCED program group code at this level:

LT1/LT2	*50.0101: Visual and Performing Arts*
	50.0301: Dance
	50.0402: Graphic Design, Commercial Art and Illustration
	50.0407: Fashion Design and Illustration
	50.0499: Design and Applied Arts, Other
	50.0799: Fine Arts and Art Studies, Other
	50.9999: Visual and Performing Arts, Other

Asc/LT4	50.0101: Visual and Performing Arts
	50.0301: Dance
	50.0402: Graphic Design, Commercial Art and Illustration
	50.0404: Industrial Design
	50.0407: Fashion Design and Illustration
	50.0499: Design and Applied Arts, Other
	50.0704: Arts Management
	50.0799: Fine Arts and Art Studies, Other

50.9999: Visual and Performing Arts, Other

522. Humanities Programs

U.S. humanities programs at this level are usually very general survey programs intended either to prepare students for transfer to 4-year programs or to serve as personal enrichment opportunities. While this crosswalk follows ISCED practice, it should be noted that, in the United States, religious studies and art studies programs (art history, music history, drama studies, film studies, general visual/performing arts studies) are considered to be humanities subjects and their program data would be reported domestically in this category.

52201. General Programmes in the Humanities. This program group code should be inserted at level 5 (it appears at level 6) to report data accurately on U.S. general humanities studies programs. It corresponds to:

LT1/LT2   *24.0103: Humanities/Humanistic Studies*

Asc/LT4   24.0103: Humanities/Humanistic Studies

52202. Programmes for Interpreters and Translators. The only U.S. data corresponding to this program group code at level 5 are reported for short courses imparting specialized skills. These are reported under:

LT1   *16.0103: Foreign Language Interpretation and Translation*

52208. Other Programmes in Languages, Except the Current or Vernacular Language. This program group code, as defined in ISCED, does not encompass any U.S. language program, except those foreign language programs which are not designated by the name of the language or linguistic group studied, and thus must be reported under a "general" label. The codes corresponding to this concept are:

LT1/LT2   *16.0101: Foreign Languages and Literatures, General*
            16.9999: Foreign Languages and Literatures, Other

Asc/LT4   16.0101: Foreign Languages and Literatures, General
            16.9999: Foreign Languages and Literatures, Other

52211. Programs in the Current or Vernacular Language and Its Literature. This program group code corresponds, in U.S. terms, to data collected on various sub-bachelor's programs in English. Most of these programs pertain to the general introductory study of

grammar, literature, and forensics, but one—technical and business writing—may be considered professional preparation depending upon the nature of the program's curriculum, orientation, and focus.

LT1/LT2
23.0101: English Language and Literature, General
23.0401: English Composition
23.0501: English Creative Writing
23.0701: American Literature (United States)
23.0801: English Literarure (British and Commonwealth)
23.1001: Speech and Rhetorical Studies
23.1101: English Technical and Business Writing
23.9999: English Language and Literature/Letters, Other

Asc/LT4
23.0101: English Language and Literature, General
23.0401: English Composition
23.0501: English Creative Writing
23.0801: English Literature (British and Commonwealth)
23.1001: Speech and Rhetorical Studies
23.1101: English Technical and Business Writing
23.9999: English Language and Literature/Letters, Other

52215. Programmes in Other Living Languages and Their Literature. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data accurately and consistently on U.S. foreign language programs at the sub-bachelor's degree level. Foreign language programs at this level have a variety of purposes, not all of them academic. Some programs, including those awarding associate degrees and longer diplomas or certificates, are designed to introduce students to the study of languages, to help them achieve some degree of comprehension and facility, and to meet foreign language course requirements should they transfer to a bachelor's degree program. Other programs may be intended to provide some memorized conversational ability and cultural appreciation for persons planning to travel abroad, intensive "immersion" programs for persons who need specialized skills, or general introductory courses for persons who have a casual interest in a particular language. Any study of literature and culture at this level is generally in English translation. The program group corresponds to:

LT1/LT2
16.0301: Chinese Language and Literature
16.0302: Japanese Language and Literature
16.0501: German Language and Literature
16.0901: French Language and Literature
16.0902: Italian Language and Literature
16.0905: Spanish Language and Literature

Asc
16.0302: Japanese Language and Literature

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16.0402: Russian Language and Literature
16.0501: German Language and Literature
16.0599: Germanic Languages and Literatures, Other
16.0901: French Language and Literature
16.0902: Italian Language and Literature
16.0905: Spanish Language and Literature
16.1101: Arabic Language and Literature

52221. Programmes in "Dead" Languages and Their Literatures. This program group code should be inserted at level 5 (it appears only at levels 6 and 7) to report data accurately on programs which introduce students to the study of ancient and medieval Greek. Insignificant data are currently reported as follows:

Asc   *16.1202: Greek Language and Literature (Ancient and*
                Medieval)

52241. Programmes in Comparative Literature. This program group code should be inserted at level 5 (it appears only at level 6) to report data accurately on programs at this level which introduce students to the comparative study of world literatures in English translation. Insignificant data are currently reported as follows:

LT1   *23.0301: Comparative Literature*

Asc   *23.0301: Comparative Literature*

52251. Programmes in History. This program group code should be inserted at level 5 (it appears only at level 6) to report data accurately on programs that introduce students to the study of history and prepare them, where desired and feasible, to transfer to 4-year institutions. It corresponds to:

Asc   **45.0801: History, General**

52271. Programmes in Philosophy. This program group code should be inserted at level 5 (it appears only at level 6) to report data accurately on programs that introduce students to the study of philosophy and prepare them, where desired and feasible, to transfer to 4-year institutions. It corresponds to:

Asc   **38.0101: Philosophy**

52299. Other Humanities Programs. Numerous programs are offered at the sub-bachelor's degree level in the field of Jewish (sometimes called Judaic) studies. This field name is sometimes used to describe a program of religious study and preparation for Jewish community service vocations; at other times it is used to describe a program of cultural studies having no direct religious preparatory function. Since the data do not permit precise identification of the two types of program using this title and because the subject of study in either case is defined as a religious/cultural community, the code is included under the "other" humanities program group listing.

LT2   *05.0205: Jewish/Judaic Studies*

LT4   **05.0205: Jewish/Judaic Studies**

526. Religion and Theology Programmes

Programs in the academic study of religion and preparation for religious vocations are reported separately inside the United States, but are combined here following ISCED practice. Public institutions, such as community and junior colleges, offer only academic programs in religious studies; these are normally classified as a part of the humanities. Private institutions offer both types of programs. Both public and private sub-bachelor's institutions also prepare individuals to enter 4-year programs that either train persons directly for theological vocations or prepare them for graduate-level programs. Degree requirements for theological ordination as a priest, pastor, rabbi, or other clergy vary depending upon the regulations of the faith community in question. The pattern varies from no degree requirement at all to a second degree at the graduate (post-graduate) level. Religious vocations other than ordained clergy (musicians, educators, counselors, lay religious, missionaries, and others) are even less predictable as to educational level.[25]

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[25] The pattern of qualification requirements for ordination in the many faith communities which are represented in the United States is as diverse and complex as that of the patterns of PK-12 educational organization from state to state. Data for theological programs have customarily been collected for three categories of faith community: the so-called "mainline" communities; the "evangelical" communities; and "other" communities. Mainline communities are generally considered to comprise the Roman Catholic Church; the various Eastern Orthodox churches; the ecumenical and liturgical Protestant churches; and the Reformed, Conservative, and Orthodox Jewish communities. These communities all require advanced educational preparation for their clergy and rabbis as well as for most other vocations. The evangelical communities comprise a collection of Christian churches adhering to various messianic, pentacostal, apocalyptic, and fundamentalist doctrines. They do not always require advanced educations of their clergy since many accept a literal interpretation of the concept of "the priesthood of all believers." A great diversity of other groups exist, both non-Christian and Christian, but they are often lumped together statistically because they together total a minority of the religious population. Their requirements for clergy education vary tremendously, from no requirements (or no clergy) to extensive preparatory education. The best source for data on American religious communities is Constant E. Jacquet, ed., *Yearbook of American and Canadian Churches*, (New York: National Council of the Churches of Christ in the U.S.A., annual).

No public educational institutions at any level offer direct preparation for religious vocations, nor are the requirements for entry into these vocations (clergy or otherwise) regulated by federal, state, or local education authorities. Clergy are

52600. Religion and Theology Programmes. This program group code corresponds to data collected on sub-bachelor's degree religious studies programs and on programs preparing students for a variety of religious vocations:

LT1/LT2
- *38.0201: Religion/Religious Studies*
- **38.9999: Philosophy and Religion**
- **39.0201: Bible/Biblical Studies**
- **39.0301: Missions/Missionary Studies and Missiology**
- **39.0401: Religious Education**
- **39.0501: Religious/Sacred Music**
- **39.0601: Theology/Theological Studies**
- **39.9999: Theological Studies and Religious Vocations, Other**

Asc/LT4
- **38.0201: Religion/Religious Studies**
- *38.9999: Philosophy and Religion*
- *39.0101: Biblical and Other Theological Languages and Literatures*
- **39.0201: Bible/Biblical Studies**
- **39.0301: Missions/Missionary Studies and Missiology**
- **39.0401: Religious Education**
- **39.0501: Religious/Sacred Music**
- **39.0601: Theology/Theological Studies**
- *39.0604: Pre-Theological/Pre-Ministerial Studies*
- **39.0699: Theological and Ministerial Studies, Other**
- *39.0701: Pastoral Counseling and Specialized Ministries*
- **39.9999: Theological Studies and Religious Vocations, Other**

530. Social and Behavioural Science Programmes

The observations made about humanities programs at the U.S. equivalent of ISCED level 5 (see 522, above) also apply to social sciences programs. In addition, some sub-bachelor's social science programs are oriented toward work applications and are meant to assist students in their career development.

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required to obtain a license in order to perform legally valid marriages (in the United States they can perform this service), to perform certain types of clinical counseling, and to serve in some public positions (such as military and hospital chaplains). The U.S. Constitution—which is binding on all levels of government in the United States—prohibits the public establishment of a state religion or even the appearance thereof, a legal fact interpreted as preventing the regulation of religion and the use of public funds to support religious activities, including religious education.

53001. General Programmes in the Social and Behavioural Sciences. This program group code should be inserted at level 5 (it appears only at level 6) to report data accurately on general social sciences programs, as well as those not designated by the name of the field studied, at the sub-bachelor's degree level. It corresponds to:

LT2   *45.0101: Social Sciences, General*

Asc   **45.0101: Social Sciences, General**

53012. Programmes in Economics. This program group code corresponds to data reported on sub-bachelor's degree programs in economics. Such programs are generally found at the associate degree level and prepare students to apply economics principles in work-related settings or continue their studies at the bachelor's degree level.

Asc   **45.0601: Economics, General**

53022. Programmes in Political Science. This program group code, as defined in ISCED, corresponds to data reported on sub-bachelor's degree programs in international relations and political science. Such programs are generally found at the associate degree level and provide an introduction to world affairs and government, as well as preparing students to continue their studies at the bachelor's degree level.

Asc/LT4   *45.0901: International Relations and Affairs*
                 45.1001: Political Science, General

53032. Programmes in Sociology. This program group code corresponds to data reported on sub-bachelor's degree programs in sociology. Such programs are generally found at the associate degree level. They provide an introduction to social relations and prepare students for continued study at the bachelor's degree level.

LT1   *45.1101: Sociology*

Asc/LT4   **45.1101: Sociology**

53042. Anthropology Programmes. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data accurately on U.S. anthropology programs. Anthropology programs at this level provide an introduction to human development and cultural patterns and prepare students for continued study at the bachelor's degree level.

LT1/LT2   *45.0201: Anthropology*

Asc   45.0201: Anthropology

53052. Programmes in Psychology. Psychology programs at the sub-bachelor's level
prepare students to work in a variety of setting requiring some knowledge of applied
psychology, to serve as assistants to clinicians and researchers, to continue their studies at
the bachelor's degree level, or to acquire a general introduction to the subject. To be
certified as a clinical practitioner or a researcher generally requires at least a master's degree
in the appropriate subfield of the discipline. This program group code corresponds to:

LT1/LT2   42.0401: *Community Psychology*
           42.0101: *Psychology, General*
           42.0601: *Counseling Psychology*
           42.0901: *Industrial and Organizational Psychology*
           42.9999: *Psychology, Other*

Asc/LT4   **42.0101: Psychology, General**
           42.0201: *Clinical Psychology*
           42.0401: Community Psychology
           42.0601: *Counseling Psychology*
           42.0701: *Developmental and Child Psychology*
           42.0901: *Industrial and Organizational Psychology*
           42.1601: *Social Psychology*
           42.9999: Psychology, Other

53062. Geography Programmes. This program group code should be inserted at level 5
(it appears at levels 6 and 7) to report data accurately on U.S. geography programs. Such
programs are generally found at the associate degree level and provide an introduction to
geographic principles. They also prepare students for continued study at the bachelor's
degree level.

Asc   45.0701: Geography

53072. Studies of Regional Cultures. This program group code should be inserted at
level 5 (it appears at levels 6 and 7) to report data accurately on U.S. area studies programs.
Area studies at the sub-bachelor's degree level constitute general introductions to the societies
and problems of particular world regions, and may be terminal programs or prepare students
to continue such studies at the bachelor's degree level. ISCED code 53072 corresponds to:

LT1/LT2   05.0101: *African Studies*
           05.0102: *American Studies/Civilization*
           05.0103: *Asian Studies*

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05.0107: *Latin American Studies*
05.0108: *Middle Eastern Studies*
05.0110: *Russian and Slavic Area Studies*
05.0114: *Western European Studies*

Asc   05.0102: *American Studies/Civilization*
05.0199: *Area Studies, Other*

53099. Other Programmes in Social and Behavioural Science. U.S. institutions offer other focused study programs similar to area studies but dealing with minority group issues, urban issues, and issues pertaining to women. Like area studies, these fields at the sub-bachelor's degree level constitute general introductions to the subjects they address and may be terminal programs or prepare students to continue such studies at the bachelor's degree level. ISCED code 53099 corresponds to:

LT1/LT2   05.0201: *Afro-American (Black) Studies*
05.0202: *American Indian/Native American Studies*
05.0207: *Women's Studies*
05.0299: *Ethnic and Cultural Studies, Other*
45.1201: *Urban Affairs/Studies*
45.9999: Social Sciences and History, Other

Asc/LT4   05.0201: *Afro-American (Black) Studies*
05.0202: *American Indian/Native American Studies*
05.0203: *Hispanic-American Studies*
05.0207: *Women's Studies*
05.0299: *Ethnic and Cultural Studies, Other*
05.9999: *Area, Ethnic, and Cultural Studies, Other*
45.0501: *Demography/Population Studies*
45.1201: Urban Affairs/Studies
45.9999: Social Sciences and History, Other

534. Commercial and Business Administration Programmes

This ISCED broad field is the appropriate place to report data on program completions at the sub-bachelor's degree level in business-related fields as well (as defined in ISCED) as public administration and administrative services related to schools, health care, and non-profit organizations. Some marketing operations program data (CIP Series 08.) are also reported here, specifically those data relating to general retailing and wholesaling services. The remainder of Series 08. codes pertaining to the retailing and selling of specific products are crosswalked to ISCED broad field 78, service trades.

53401. General Commercial Programmes. General business programs at this level provide either an introduction to business administration or constitute business programs that do not have titles indicating a specialty. This program group code corresponds to:

LT1/LT2	52.0101: Business, General
	52.0201: Business Administration and Management, General
Asc/LT4	52.0101: Business, General
	52.0201: Business Administration and Management, General

53404. Secretarial Programmes. Programs in the administrative office support area range from short training courses intended to provide basic skills or upgrade existing skills to full degree programs that prepare professional secretaries and executive assistants. This program group code corresponds to data collected via the following CIP codes:

LT1/LT2	52.0401: Administrative Assistant/Secretarial Science, General
	52.0402: Executive Assistant/Secretary
	52.0403: Legal Administrative Assistant/Secretary
	52.0404: Medical Administrative Assistant/Secretary
	52.0405: Court Reporter
	52.0406: Receptionist
	52.0499: Administrative and Secretarial Services, Other
Asc/LT4	52.0401: Administrative Assistant/Secretarial Science, General
	52.0402: Executive Assistant/Secretary
	52.0403: Legal Administrative Assistant/Secretary
	52.0404: Medical Administrative Assistant/Secretary
	52.0405: Court Reporter
	52.0406: Receptionist
	52.0499: Administrative and Secretarial Services, Other

53408. Clerical-Typists Programmes. This program group code should be inserted at level 5 (it appears only at level 3) to report data accurately on U.S. clerical and general office programs. It corresponds to data collected via the following CIP code:

LT1/LT2	52.0408: General Office/Clerical and Typing Services
Asc/LT4	52.0408: General Office/Clerical and Typing Services

53422. Programmes in Business Machine Operation, Except Electronic Data Processing. This program group code does not correspond to any specific program for which U.S. data

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are reported. In the United States the operation of office equipment is done by general office workers, secretaries, or anyone with a need to use it and the knowledge to do so. Specific operational supervision and maintenance of equipment is carried out by special personnel (refer to ISCED program groups 53426 and 55222). Furthermore, the automation of business offices has reduced or eliminated the presence of non-computer equipment (mechanical typewriters, mimeographs, and others) and the need to train personnel in their use.

53426. Programmes in Electronic Data Processing. Electronic data processing actually includes a wider variety of programs than the title suggests, ranging from word processing and data entry to the management of business computer facilities and the planning and design of business-specific computer applications (software and hardware). This program group code, as defined in ISCED, corresponds to:

LT1/LT2   **52.0407: Information Processing/Data Entry Technician**
                    52.1201: Management Information Systems and Business Data Processing, General
                    52.1202: Business Computer Programming/Programmer
                    52.1203: Business Systems Analysis and Design
                    52.1205: Business Computer Facilities Operator
                    52.1299: Business Information and Data Processing Services, Other

Asc/LT4   **52.0407: Information Processing/Data Entry Technician**
                    52.1201: Management Information Systems and Business Data Processing, General
                    52.1202: Business Computer Programming/Programmer
                    52.1203: Business Systems Analysis and Design
                    52.1205: Business Computer Facilities Operator
                    52.1299: Business Information and Data Processing Services, Other

53432. Accountancy Programmes. Professional accountants in the United States must possess at least a bachelor's degree in the subject. At the sub-bachelor's degree level accounting programs either prepare bookkeepers (now called accounting technicians) and other assistants to accountants and auditors or provide the basic coursework for students who plan to go on to earn bachelor's degrees. This program group code corresponds to:

LT1/LT2   **52.0301: Accounting**
                    52.0302: Accounting Technician
                    52.0399: Accounting, Other

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Asc/LT4   52.0301: Accounting
            52.0302: Accounting Technician
            52.0399: Accounting, Other

53434. Business Administration, Marketing and Sales Programmes. This program group code as defined in ISCED corresponds to the CIP marketing operations (Series 08.) codes that prepare students in general retailing and wholesaling skills, as well as programs in business marketing that are offered at the sub-bachelor's degree level. ISCED code 53434 includes:

LT1/LT2   08.0701: Auctioneering
            08.0704: General Buying Operations
            08.0705: General Retailing Operations
            08.0706: General Selling Skills and Sales Operations
            08.0708: General Marketing Operations
            08.0709: General Distribution Operations
            08.0799: General Retailing and Wholesaling Operations
                and Skills, Other
            09.0201: Advertising
            52.1401: Business Marketing and Marketing Management, General
            52.1499: Marketing Management and Research, Other

Asc/LT4   08.0704: General Buying Operations
            08.0705: General Retailing Operations
            08.0706: General Selling Skills and Sales Operations
            08.0708: General Marketing Operations
            08.0709: General Distribution Operations
            08.0799: General Retailing and Wholesaling Operations
                and Skills, Other
            09.0201: Advertising
            52.1401: Business Marketing and Marketing Management, General
            52.1499: International Business Marketing
            52.1499: Marketing Management and Research, Other

53436. Programmes in Financial Management and Investment Analysis. This program group code as defined in ISCED corresponds at this level to U.S. programs that prepare support personnel for the financial services industries, including bank tellers and assistants for loan, insurance, investment, tax preparation, and other operations. Such programs may also prepare students to continue their education at the bachelor's degree level. ISCED code 53436 includes:

LT1/LT2   52.0801: Finance, General

52.0803: **Banking and Financial Support Services**
                    52.0805: **Insurance and Risk Management**
                    52.0807: **Investments and Securities**
                    52.1601: **Taxation**

Asc/LT4   52.0801: **Finance, General**
                    52.0803: **Banking and Financial Support Services**
                    52.0805: **Insurance and Risk Management**
                    52.0807: *Investments and Securities*
                    52.0899: *Financial Management and Services, Other*

53439. Other Commercial and Business Programmes. A great many business administration specialties are not assigned separate categories in ISCED. Data reported on these programs needs to be assigned to the "other" program group. As with other business programs, offerings at level 5 either prepare entry-level assistants and support personnel or provide the necessary basic education to permit continued study at the bachelor's degree level. This program group code, as defined in ISCED, corresponds to:

LT1/LT2   08.0301: **Entrepreneurship**
                    52.0202: *Purchasing, Procurement and Contracts Management*
                    52.0203: **Logistics and Materials Management**
                    52.0204: **Office Supervision and Management**
                    52.0205: **Operations Management and Supervision**
                    52.0299: **Business Administration and Management, Other**
                    52.0601: *Business/Managerial Economics*
                    52.0701: **Enterprise Management and Operation, General**
                    52.0901: *Hospitality Administration/Management*
                    52.0902: **Hotel/Motel and Restaurant Management**
                    52.0903: **Travel and Tourism Management**
                    52.0999: *Hospitality Services Management, Other*
                    52.1001: **Human Resources Management**
                    52.1002: **Labor/Personnel Relations and Studies**
                    52.1101: *International Business*
                    52.1301: *Management Science*
                    52.1399: **Business Quantitative Methods and Management
                             Science, Other**
                    52.1501: **Real Estate**
                    52.9999: **Business Management and Administrative Services,
                             Other**

Asc/LT4   08.0301: **Entrepreneurship**
                    52.0202: **Purchasing, Procurement and Contracts Management**
                    52.0203: **Logistics and Materials Management**

52.0204: Office Supervision and Management
52.0205: Operations Management and Supervision
52.0299: Business Administration and Management, Other
52.0601: Business/Managerial Economics
52.0701: Enterprise Management and Operation, General
52.0799: Enterprise Management and Operation, Other
52.0901: Hospitality Administration/Management
52.0902: Hotel/Motel and Restaurant Management
52.0903: Travel and Tourism Management
52.0999: Hospitality Services Management, Other
52.1001: Human Resources Management
52.1002: Labor/Personnel Relations and \`_udies
52.1003: Organizational Behavior Studies
52.1099: Human Resources Management, Other
52.1101: International Business
52.1301: Management Science
52.1399: Business Quantitative Methods and Management
      Science, Other
52.1501: Real Estate
52.9999: Business Management and Administrative Services,
      Other

53452. Programmes in Public Administration. This program group code as defined in ISCED corresponds to data reported for U.S. programs preparing students as support personnel for government offices (local, state, and federal); to continue public administration studies at the bachelor's degree level; and to obtain a basic introduction to the workings of government. It should be noted that public administration is as much an academic as a professional field in the United States. Public-sector workers and managers are not required to specialize in public administration and frequently do not. (They are usually educated in a field related to what they are hired to do, such as law, accounting, management, health care, a research specialty, or other qualification.) Public administration is often treated, in the United States, as a branch of political science and programs in it are frequently offered by faculty in the latter discipline. ISCED code 53452 includes:

LT1/LT2	*44.0401: Public Administration*
	44.9999: Public Administration and Services, Other
Asc/LT4	**44.0401: Public Administration**
	44.0501: Public Policy Analysis
	44.9999: Public Administration and Services, Other

53462. Programmes in Institutional Administration. This program group code does not

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correspond to the way that U.S. programs in education, health care, and non-profit organization administration are treated. In U.S. data reporting, programs in the administration of these activities are included under the subject categories rather than as a separate heading under business administration. The administrative programs cited in the definition of this program group are reported here in order to accomodate the ISCED system. Educational administration below the bachelor's degree level involves only the training of support personnel, as does health care administration. ISCED code 53462 includes:

LT1/LT2   *13.0405: Elementary, Middle and Secondary Education Administration*
51.0701: Health System/Health Services Administration
51.0705: Medical Office Management
51.0706: Medical Records Administration
51.0707: Medical Records Technology/Technician
51.0708: Medical Transcription
51.0799: Health and Medical Administrative Services, Other

Asc/LT4   *13.0405: Elementary, Middle and Secondary Education Administration*
51.0701: Health System/Health Services Administration
51.0702: Hospital/Health Facilities Administration
51.0705: Medical Office Management
51.0706: Medical Records Administration
51.0707: Medical Records Technology/Technician
51.0799: Health and Medical Administrative Services, Other

538. Law and Jurisprudence Programmes

ISCED defines this broad field as pertaining to the training of magistrates, a type of instructional program that is not offered in U.S. institutions as a credit program, nor does the term magistrate as used in American law and the U.S. judicial system correspond to what is referred to in the only ISCED code established at this level. Despite this difference, law-related instructional programs are offered in the U.S. at this level, mainly paralegal training and pre-law studies. To accommodate these programs it is necessary to insert appropriate codes.

53800. Programmes for Local Magistrates. No U.S. data corresponding to this ISCED code exist.

53801. General Programmes in Law. This program group code should be inserted at level 5 (it appears only at level 6) to report data accurately on U.S. sub-bachelor's degree programs that prepare legal assistants (also called paralegals) or provide the first year or two of pre-law studies for students planning to enter professional legal studies. It corresponds to:

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| LT1/LT2 | 22.0102: *Pre-Law Studies* |
| | 22.0103: **Paralegal/Legal Assistant** |

| Asc/LT4 | 22.0102: **Pre-Law Studies** |
| | 22.0103: **Paralegal/Legal Assistant** |

53899. Other Law and Jurisprudence Programmes. This program group code should be inserted at level 5 (it appears only at level 7) to report data accurately on U.S. sub-bachelor's degree programs in legal studies not elsewhere classified. It corresponds to:

| LT1/LT2 | 22.0199: **Law and Legal Studies, Other** |

| Asc/LT4 | 22.0199: **Law and Legal Studies, Other** |

542. Natural Science Programmes

This ISCED broad field describes both biological and physical sciences programs at the less-than-4-year level.

54202. Biological Science Programmes. This program group code as defined in ISCED corresponds to data reported on the entire range of biological science programs, which is an extensive and growing list. At the sub-bachelor's degree level the main program offerings are in general biology at the associate degree level, although some of the more specialized titles occasionally appear. These programs either prepare biological laboratory or research assistants or prepare students to continue their studies at the bachelor's degree level. ISCED code 54202 includes:

LT1/LT2	26.0101: *Biology, General*
	26.0501: *Microbiology/Bacteriology*
	26.0699: *Miscellaneous Biological Specializations, Other*
	26.0702: *Entomology*

Asc/LT4	26.0101: **Biology, General**
	26.0202: *Biochemistry*
	26.0301: *Botany, General*
	26.0501: *Microbiology/Bacteriology*
	26.0601: *Anatomy*
	26.0603: *Ecology*
	26.0607: *Marine/Aquatic Biology*
	26.0609: *Nutritional Sciences*
	26.0612: *Toxicology*
	26.0699: **Miscellaneous Biological Specializations, Other**

26.0701: Zoology, General
26.0706: Physiology, Human and Animal
26.9999: Biological Sciences/Life Sciences, Other

54212. Chemistry Programmes. Chemistry programs at this educatiu.al level are mainly general chemistry offerings at the associate degree level. These programs either prepare chemical laboratory or research assistants or prepare students to continue their studies at the bachelor's degree level. ISCED code 54212 includes:

LT2   *40.0501: Chemistry, General*

Asc   **40.0501: Chemistry, General**
          40.0503: Inorganic Chemistry
          40.0599: Chemistry, Other

54222. Geological Science Programmes. Geological science programs at this educational level consist of general geology offerings at the associate degree level plus shorter programs training field assistants and short topical programs of interest to casual students. Students also complete programs at this level ˠreparatory to continuing their studies at the bachelor's degree level. ISCED code 54222 includes:

LT1/LT2   *40.0601: Geology*
          40.0603: Geophysics and Seismology
          40.0604: Paleontology

Asc   **40.0601: Geology**

54232. Physics Programmes. Physics programs at this educational level are mainly general physics offerings at the associate degree level. These programs either prepare physics laboratory or research assistants or prepare students to continue their studies at the bachelor's degree level. ISCED code 54232 includes:

LT2   *40.0801: Physics, General*

Asc   **40.0801: Physics, General**
          40.0899: Physics, Other

54262. Oceanography Programmes. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data accurately on U.S. oceanography programs. Oceanography programs at this educational level provide a topical introduction for casual

students, prepare oceanographic research assistants (including crew for research expeditions), and prepare students to continue their studies at the bachelor's degree level. ISCED code 54262 includes:

LT1   *40.0702: Oceanography*

Asc   **40.0702: Oceanography**

54299. Other Natural Science Programmes. General programs in the physical sciences emphasizing no specific discipline, multidisciplinary programs, and a few specific programs in other science fields are offered at this level in the United States. This program group code as defined in ISCED corresponds to:

LT2
- *30.0101: Biological and Physical Sciences*
- *30.0601: Systems Science and Theory*
- *40.0101: Physical Sciences, General*
- *40.0701: Metallurgy*
- *40.0799: Miscellaneous Physical Sciences, Other*

Asc
- **30.0101: Biological and Physical Sciences**
- **40.0101: Physical Sciences, General**
- *40.0701: Metallurgy*
- *40.0799: Miscellaneous Physical Sciences, Other*
- **40.9999: Physical Sciences, Other**

546. Mathematics and Computer Science Programmes

Data on both of these program Series are combined in this ISCED broad field, although they are reported separately within the United States.

54601. General Programmes in Mathematics. This program group code as defined in ISCED corresponds to sub-bachelor's degree programs in mathematics which provide work-related skills, personal enrichment, or preparation for transfer to bachelor's degree programs in mathematics or a related field. ISCED code 54601 includes:

LT1/LT2   **27.0101: Mathematics**

Asc/LT4   **27.0101: Mathematics**

54611. Programmes in Statistics. Statistics programs at the sub-bachelor's degree level are currently reported only at the less-than-1-year level and indicate short work-related or

personal enrichment offerings. ISCED code 54601 includes:

LT1   *27.0501: Mathematical Statistics*

54621. Programmes in Actuarial Science. Actuarial science programs at the sub-bachelor's degree level are reported only at the less-than-2-year level and indicate short work-related offerings. ISCED code 54601 includes:

LT2   *52.0802: Actuarial Science*

54639. Other Programmes in Applied Mathematics. Some other mathematics programs are reported at the sub-bachelor's degree level, primarily as associate degree completions. ISCED code 54639, as defined, includes:

LT1   *27.0301: Applied Mathematics, General*

Asc   *27.0301: Applied Mathematics, General*
               27.9999: Mathematics, Other
               30.0801: Mathematics and Computer Science

54641. Programmes in Computer Science. This program group code as defined in ISCED corresponds to programs that provide a general introduction to computers and related sciences and which prepare students either for entry-level occupations in the computer field or for further studies at the bachelor's degree level. ISCED code 54641 includes:

LT1/LT2   **11.0101: Computer and Information Sciences, General**
                11.0201: Computer Programming
                11.0301: Data Processing Technology/Technician
                11.0401: Information Sciences and Systems
                11.0701: Computer Science
                11.9999: Computer and Information Sciences, Other

Asc/LT4   **11.0101: Computer and Information Sciences, General**
                11.0201: Computer Programming
                11.0301: Data Processing Technology/Technician
                11.0401: Information Sciences and Systems
                11.0501: Computer Systems Analysis
                11.0701: Computer Science
                11.9999: Computer and Information Sciences, Other

550. Medical Diagnostic and Treatment Programmes

The following listing corresponds to those U.S. program codes in these categories for which data at this level are reported. As with law, ISCED assumptions about health professions training do not correspond to domestic U.S. practice. Virtually all U.S. health occupations training is postsecondary, not secondary. Also the increased reliance on high-tech equipment and an increased reliance on allied health professionals instead of nurses and physicians has resulted in a gradual increase in the level of education required for licensure in these occupational fields. Because these fields, and the educational qualifications deemed necessary for them, are in flux there are variations in how state licensing authorities, professional associations, and institutions approach the matter of program content and level. Many health care programs are now offered, and completed, at both ISCED levels 5 and 6, as well as at level 7. These facts have required an examination of ISCED health and medical codes across all postsecondary levels (5-7) in order to determine where specific U.S. programs should be reported.

55002. Public Health Inspection Programmes. Public health in the United States is a professional field requiring education at the bachelor's degree level and, most often, beyond. At the sub-bachelor's degree level there is no reported program activity except for the training of persons who serve in various roles in local health systems, generally as organizers of volunteers, liasons with health authorities and facilities (often for minority and non-English-speaking communities), and as community services staff. Thus ISCED code 55002 includes only:

    LT1/LT2   51.0301: Community Health Liason

    Asc   51.0301: Community Health Liason

55006. Programmes in Medical and Surgical Assisting. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data accurately on U.S. medical assistant and pre-medicine programs. Such programs, at this level, are intended to either prepare assistants to physicians and surgeons or to provide the first 2 years or so of preparatory studies prior to entering medical school (a full bachelor's degree or the equivalent must be completed prior to enrollment). ISCED code 55006 corresponds to:

    LT1/LT2   51.0807: Physician Assistant

    Asc/LT4   51.0807: Physician Assistant
                    51.1102: Pre-Medicine Studies

55008. Physiotherapy and Occupational Therapy Programmes. This program group code is interpreted to include all therapeutic and rehabilitation programs (despite its title), as they

form a coherent group of related fields, and there is no other appropriate place to report them together in ISCED. Therapeutic and rehabilitation programs preparing entry-level personnel are offered at both the sub-bachelor's and bachelor's degree levels. As defined, ISCED code 55008 corresponds to:

LT1/LT2   *51.0803: Occupational Therapy Assistant*
             51.0806: Physical Therapy Assistant
             51.2301: Art Therapy
             51.2305: Music Therapy
             51.2306: Occupational Therapy
             51.2307: Orthotics/Prosthetics
             51.2308: Physical Therapy
             51.2309: Recreational Therapy
             51.2310: Vocational Rehabilitation Counseling
             51.2399: Rehabilitation/Therapeutic Services, Other

Asc/LT4   **51.0803: Occupational Therapy Assistant**
             51.0806: Physical Therapy Assistant
             51.2301: Art Therapy
             51.2306: Occupational Therapy
             51.2307: Orthotics/Prosthetics
             51.2308: Physical Therapy
             51.2309: Recreational Therapy
             51.2310: Vocational Rehabilitation Counseling
             51.2399: Rehabilitation/Therapeutic Services, Other

55012. Nursing Programmes. U.S. nursing programs at the sub-bachelor's degree level consist of three types: programs training registered nurses (fully licensed professional practitioners). programs training practical nurses (general care workers with limited licenses), and programs training nursing assistants and aides. Registered nurses are also trained in bachelor's degree programs; the professional curricula for both levels is the same but the ancillary "liberal arts" general subjects are only required at the bachelor's level. An ongoing d ' 'e exists as to which approach is better. Short programs in the advanced nursing sp__.alities, which are occasionally reported. are not full training programs but rather similarly titled programs training specialized assistants or providing professional refresher training. ISCED code 55012 corresponds to:

LT1/LT2   **51.1601: Nursing (R.N. Training)**
             51.1602: Nursing Administration
             51.1604: Nursing Anesthetist
             51.1612: Nursing, Surgical
             51.1613: Practical Nurse (L.P.N. Training)
             51.1614: Nursing Assistant/Aide

         51.1615: Home Health Aide
         51.1699: Nursing, Other

Asc/LT4   51.1601: Nursing (R.N. Training)
         51.1602: Nursing Administration
         51.1604: Nursing Anesthetist
         51.1608: Nursing Science
         51.1612: Nursing, Surgical
         51.1613: Practical Nurse (L.P.N. Training)
         51.1614: Nursing Assistant/Aide
         51.1615: Home Health Aide
         51.1699: Nursing, Other

55015. Midwifery Programmes. This program group code corresponds to U.S. data for programs preparing nurse-midwives, including:

LT4   *51.1607: Nursing Midwifery*

55017. Programmes in Medical X-Ray Techniques. Radiologic technology, as this program is called in the United States, is considered one of the allied health diagnostic fields, and data are reported domestically together with those for the CIP codes listed below under ISCED code 55019. Such data are isolated here for purposes of correspondence with the ISCED system, and include:

LT1/LT2   51.0907: Medical Radiologic Technology/Technician

Asc/LT4   51.0907: Medical Radiologic Technology/Technician

55019. Other Programmes in Medical Diagnostic and Treatment Techniques Except Dental Techniques. This program group code as defined in ISCED corresponds to data collected via the following CIP codes:

LT1/LT2   51.0901: Cardiovascular Technology/Technician
         51.0902: Electrocardiograph Technology/Technician
         51.0903: Electroencephalograph Technology/Technician
         51.0904: Emergency Medical Technology/Technician
         51.0905: Nuclear Medical Technology/Technician
         51.0908: Respiratory Therapy Technician
         51.0909: Surgical/Operating Room Technician
         51.0910: Diagnostic Medical Sonography Technician
         51.0999: Health and Medical Diagnostic and Treatment Services,

Other

Asc/LT4   51.0901: Cardiovascular Technology/Technician
            51.0902: Electrocardiograph Technology/Technician
            51.0903: Electroencephalograph Technology/Technician
            51.0904: Emergency Medical Technology/Technician
            51.0905: Nuclear Medical Technology/Technician
            51.0908: Respiratory Therapy Technician
            51.0909: Surgical/Operating Room Technician
            51.0910: Diagnostic Medical Sonography Technician
            51.0999: Health and Medical Diagnostic and Treatment Services,
                Other

55030. Medical Technology Programmes. This program group code should be inserted at Level 5 (it appears only at Level 6) to report data accurately on U.S. medical laboratory technology programs. These programs are offered predominantly at the sub-bachelor's degree level and train various laboratory assistants and technicians who work in clinics, hospitals, physician's offices, and laboratory firms. ISCED code 55030 corresponds to:

LT1/LT2   51.0802: Medical Laboratory Assistant
            51.1001: Blood Bank Technology/Technician
            51.1002: Cytotechnologist
            51.1003: Hematology Technology/Technician
            51.1004: Medical Laboratory Technician
            51.1005: Medical Technology
            51.1099: Health and Medical Laboratory Technologies/
                Technicians, Other

Asc/LT4   51.0802: Medical Laboratory Assistant
            51.1001: Blood Bank Technology/Technician
            51.1002: Cytotechnologist
            51.1004: Medical Laboratory Technician
            51.1005: Medical Technology
            51.1099: Health and Medical Laboratory Technologies/
                Technicians, Other

55042. Dental Practitioner Programmes. The only U.S. program in what ISCED defines as dental practice for which data are reported at the sub-bachelor's degree level is the basic preparatory program in pre-dentistry studies which prepares students to transfer to the required bachelor's degree level program prior to entering dental school. ISCED code 55042 thus corresponds only to:

Asc/LT4   51.1101: Pre-Dentistry Studies

55046. Other Programmes in Dental Techniques. This program group code as defined in ISCED includes all of the allied health fields directly supporting the work of professional dentists. It corresponds to:

LT1/LT2   51.0601: Dental Assistant
           51.0602: Dental Hygienist
           51.0603: Dental Laboratory Technician
           51.0699: Dental Services, Other

Asc/LT4   51.0601: Dental Assistant
           51.0602: Dental Hygienist
           51.0603: Dental Laboratory Technician
           51.0699: Dental Services, Other

55052. Programmes Related to Pharmacy. U.S. professional pharmacy programs are offered only at the bachelor's and graduate degree levels. This program group code as defined in ISCED corresponds only to programs preparing pharmacists' assistants (counter and laboratory); providing initial pre-pharmacy education for students intending to transfer to bachelor's degree programs (sometimes called "pharmacy"); and providing short refresher training for pharmacists. These programs include:

LT1/LT2   51.0805: Pharmacy Technician/Assistant
           51.2099: Pharmacy, Other

Asc/LT4   51.0805: Pharmacy Technician/Assistant
           51.1103: Pre-Pharmacy Studies
           51.2099: Pharmacy, Other

55062. Programmes Related to Optometry. Optometry is a graduate-level professional program in the U.S. which requires a bachelor's degree or the equivalent for entry. Programs offered at the sub-bachelor's level prepare support personnel who work in optical laboratories and retail dispenseries, and who assist optometrists and ophthalmologists. Also offered are programs that provide the first 2 years or so of the preparatory program for prospective entrants to schools of optometry and medicine. ISCED code 55062 thus corresponds to:

LT1/LT2   *51.1801: Opticianry/Dispensing Optician*
           51.1802: Optical Technician/Assistant
           51.1899: Ophthalmic/Optometric Services, Other

Asc/LT4   51.1801: Opticianry/Dispensing Optician
                       51.1802: Optical Technician/Assistant
                       51.1899: Ophthalmic/Optometric Services, Other

55099. Other Medical Diagnostic and Treatment Programmes. A large number of U.S. health professions programs cannot be reported separately because there are no corresponding program group codes assigned in ISCED. Those reporting sub-bachelor's degree data should be reported under this program group code, and include:

LT1/LT2   51.0205: Sign Language Interpreter
                       51.0703: Health Unit Coordinator/Ward Clerk
                       51.0704: Health Unit Manager/Ward Supervisor
                       51.0801: Medical Assistant
                       51.1199: Health and Medical Preparatory Programs, Other
                       51.1501: Alcohol/Drug Abuse Counseling
                       51.1502: Psychiatric/Mental Health Services Technician
                       51.1503: Clinical and Medical Social Work
                       51.2601: Health Aide
                       51.9999: Health Professions and Related Sciences, Other

Asc/LT4   *51.0203: Speech-Language Pathology*
                       51.0203: Speech-Language Pathology and Audiology
                       51.0205: Sign Language Interpreter
                       51.0703: Health Unit Coordinator/Ward Clerk
                       51.0704: Health Unit Manager/Ward Supervisor
                       51.0801: Medical Assistant
                       51.1199: Health and Medical Preparatory Programs, Other
                       51.1302: Medical Biochemistry
                       51.1399: Basic Medical Sciences, Other
                       51.1501: Alcohol/Drug Abuse Counseling
                       51.1502: Psychiatric/Mental Health Services Technician
                       51.1503: Clinical and Medical Social Work
                       51.15?9. Mental Health Services, Other
                       51.2601: Health Aide
                       51.2701: Acupuncture and Oriental Medicine
                       51.9999: Health Professions and Related Sciences, Other

552. Trade, Craft and Industrial Programmes, n.e.c.

ISCED organization of the trade, craft, and industrial vocational programs differs in important details from U.S. practice. Those differences are reflected in the following listing and in the subsequent discussion of the service trades (broad field 578) at level 5.

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55212. Food Processing Trades Programmes. This program group code as defined in ISCED corresponds to data reported on the relatively few U.S. training programs in food processing and production offered at educational institutions. They include:

LT1/LT2   *01.0401: Agricultural and Food Products Processing Operations and Management*
           12.0506: Meatcutter

Asc   **01.0401: Agricultural and Food Products Processing Operations and Management**
           12.0506: Meatcutter

55216. Building Trades Programmes, n.e.c. This program group code should be inserted at Level 5 (it appears only at Level 3) to report data accurately on U.S. building and construction trades programs. Such programs are usually postsecondary in the United States, and they prepare students for entry-level or advanced work (depending on level) in a variety of occupations related to the construction, inspection, and maintenance of built structures. ISCED code 55216 includes:

LT1/LT2   **46.0101: Mason and Tile Setter**
           46.0201: Carpenter
           46.0301: Electrical and Power Transmission Installer, General
           46.0302: Electrician
           46.0303: Lineworker
           46.0401: Building/Property Maintenance and Manager
           46.0403: Construction/Building Inspector
           46.0408: Painter and Wall Coverer
           46.0499: Construction and Building Finishers and Managers, Other
           46.0501: Plumber and Pipefitter
           46.9999: Construction Trades, Other

Asc/LT4   **46.0101: Mason and Tile Setter**
           46.0201: Carpenter
           46.0301: Electrical and Power Transmission Installer, General
           46.0302: Electrician
           46.0303: Lineworker
           46.0399: Electrical and Power Transmission Installer, Other
           46.0401: Building/Property Maintenance and Manager
           46.0403: Construction/Building Inspector

46.0408: Painter and Wall Coverer

46.0499: Construction and Building Finishers and Managers, Other

46.0501: Plumber and Pipefitter

46.9999: Construction Trades, Other

55222. Electrical and Electronics Trades Programmes. This program group code as defined in ISCED corresponds to the following U.S. programs for training electrical equipment installation and maintenance workers. The difference between these electrical specialties and those listed above under 55216 is that the programs included here pertain to electrical apparatus and appliances, not to the wiring of buildings, cable laying, or wire stringing. ISCED code 55222 includes:

LT1/LT2
47.0101: Electrical and Electronics Equipment Installer and Repairer, General

47.0102: Business Machine Repairer

47.0103: Computer Systems Installer and Repairer

47.0104: Computer Installer and Repairer

47.0105: Industrial Electronics Installer and Repairer

47.0106: Major Appliance Installer and Repairer

47.0199: Electrical and Electronics Equipment Installer and Repairer, Other

Asc/LT4
47.0101: Electrical and Electronics Equipment Installer and Repairer, General

47.0102: Business Machine Repairer

47.0103: Computer Systems Installer and Repairer

47.0104: Computer Installer and Repairer

47.0105: Industrial Electronics Installer and Repairer

47.0106: Major Appliance Installer and Repairer

47.0199: Electrical and Electronics Equipment Installer and Repairer, Other

55232. Metal Trades Programmes. This program group code as defined in ISCED corresponds to data reported on the following U.S. programs to train precision metal workers:

LT1/LT2
48.0501: Machinist/Machine Technologist

48.0503: Machine Shop Assistant

48.0506: Sheet Metal Worker

48.0507: Tool and Die Maker/Technologist

48.0508: Welder/Welding Technologist

48.0599: Precision Metal Workers, Other

Asc/LT4 48.0501: Machinist/Machine Technologist
48.0503: Machine Shop Assistant
48.0506: Sheet Metal Worker
48.0507: Tool and Die Maker/Technologist
48.0508: Welder/Welding Technologist
48.0599: Precision Metal Workers, Other

55242. Mechanical and Mechanical Repair Trades Programmes. This program group code as defined in ISCED corresponds to data reported on the following U.S. programs to train mechanics and repair workers for various types of equipment, vehicles, and systems:

LT1/LT2 47.0302: Heavy Equipment Maintenance and Repairer
47.0303: Industrial Machinery Maintenance and Repairer
47.0399: Industrial Equipment Maintenance and Repairers, Other
47.0401: Instrument Calibration and Repairer
47.0402: Gunsmith
47.0403: Locksmith and Safe Repairer
47.0404: Musical Instrument Repairer
47.0408: Watch, Clock and Jewelry Repairer
47.0499: Miscellaneous Mechanics and Repairers, Other
47.0501: Stationary Energy Sources Installer and Operator
47.0603: Auto/Automotive Body Repairer
47.0604: Auto/Automotive Mechanic/Technician
47.0605: Diesel Engine Mechanic and Repairer
47.0606: Small Engine Mechanic and Repairer
47.0607: Aircraft Mechanic/Technician, Airframe
47.0608: Aircraft Mechanic/Technician, Powerplant
47.0611: Motorcycle Mech ·ic and Repairer
47.0699: Vehicle and Mobile Equipment Mechanics and Repairers, Other
47.9999: Mechanics and Repairers, Other
49.0306: Marine Maintenance and Ship Repairer

Asc/LT4 47.0302: Heavy Equipment Maintenance and Repairer
47.0303: Industrial Machinery Maintenance and Repairer
47.0399: Industrial Equipment Maintenance and Repairers, Other
47.0401: Instrument Calibration and Repairer
47.0402: Gunsmith
47.0404: Musical Instrument Repairer

47.0408: Watch, Clock and Jewelry Repairer
47.0499: Miscellaneous Mechanics and Repairers, Other
47.0501: Stationary Energy Sources Installer and Operator
47.0603: Auto/Automotive Body Repairer
47.0604: Auto/Automotive Mechanic/Technician
47.0605: Diesel Engine Mechanic and Repairer
47.0606: Small Engine Mechanic and Repairer
47.0607: Aircraft Mechanic/Technician, Airframe
47.0608: Aircraft Mechanic/Technician, Powerplant
47.0609: Aviation Systems and Avionics Maintenance Technologist/
Technician
47.0699: Vehicle and Mobile Equipment Mechanics and Repairers,
Other
47.9999: Mechanics and Repairers, Other
49.0306: Marine Maintenance and Ship Repairer

55262. Woodworking Trades Programmes. This program group code should be inserted at level 5 (it appears only at level 3) to report data accurately on U.S. woodworking trades programs. Most such programs in the United States are postsecondary in level and train skilled workers for the furniture and other industries producing specialized finished wood products. ISCED 55262 includes:

LT1/LT2	48.0701: Woodworkers, General
	48.0702: Furniture Designer and Maker
	48.0703: Cabinet Maker and Millworker
	48.0799: Woodworkers, Other

Asc/LT4	48.0701: Woodworkers, General
	48.0702: Furniture Designer and Maker
	48.0703: Cabinet Maker and Millworker
	48.0799: Woodworkers, Other

55264. Heating, Air Conditioning and Refrigeration Trades Programmes. This program group code as defined in ISCED corresponds to data reported on a single corresponding U.S. program offered a each sub-bachelor's degree level:

| LT1/LT2 | 47.0201: Heating, Air Conditioning and Refrigeration Mechanic and Repairer |

| Asc/LT4 | 47.0201: Heating, Air Conditioning and Refrigeration Mechanic and Repairer |

55266. Materials Handling and Earth-Moving Equipment Operating Programmes.
This program group code should be inserted at level 5 (it appears only at level 3) to report
data accurately on U.S. earth-moving equipment operator programs. Data on other types of
materials-handling training are either subsumed under other program codes and cannot be
disaggregated or are not known to be offered as instructional programs in educational
institutions (as opposed to on-the-job training). ISCED code 55266 corresponds to:

LT1/LT2   49.0202: Construction Equipment Operator

LT4   49.0202: Construction Equipment Operator

55272. Leather Trades Programmes. This program group code should be inserted at
level 5 (it appears only at level 3) to report data accurately on U.S. leather trades programs.
Relatively few programs belonging in this category continue to report data in the United
States. It corresponds to:

LT2   *48.0304: Shoe, Boot and Leather Repairer*
             48.0399: Leatherworkers and Upholsterers, Other

Asc   *48.0399: Leatherworkers and Upholsterers, Other*

55274. Programmes in Textile Techniques. U.S. programs dealing with what ISCED
defines as "textile techniques" are offered mainly within the fields of home economics and
engineering, which are assigned codes elsewhere (see broad fields 554 and 566). No specific
programs in this category, as defined in ISCED, exist other than those reported in other
placements.

55276. Clothing and Related Trades Programmes. This program group code should be
inserted at level 5 (it appears only at level 3) to report data accurately on U.S. clothing
trades programs pertaining to the commercial tailoring and construction of garments and
apparel, as well as upholstering and fabric services. ISCED code 55276 corresponds to:

LT1/LT2   **20.0301: Clothing, Apparel, and Textile Workers and Managers,
General**
             20.0303: Commercial Garment and Apparel Worker
             20.0305: Custom Tailor
             20.0306: Fashion and Fabric Consultant
             **20.0399: Clothing, Apparel, and Textile Workers and Managers,
Other**
             48.0303: Upholsterer

Asc/LT4   20.0301: Clothing, Apparel, and Textile Workers and Managers, General
20.0303: Commercial Garment and Apparel Worker
20.0305: Custom Tailor
20.0306: Fashion and Fabric Consultant
20.0399: Clothing, Apparel, and Textile Workers and Managers, Other
48.0303: Upholsterer

55278. Graphic Arts Programmes. ISCED includes some applied art programs under this program group code at this level, a placement that is inconsistent with the treatment of applied art at other levels. To maintain consistency, this program group code is interpreted as corresponding to data reported for programs training printers and related industrial personnel. (For applied art, see under broad field 518.) ISCED code 55278, as defined, includes:

LT1/LT2   48.0201: Graphic and Printing Equipment Operator, General
48.0205: Mechanical Typesetter and Composer
48.0206: Lithographer and Platemaker
48.0208: Printing Press Operator
48.0212: Desktop Publishing Equipment Operator
48.0299: Graphic and Printing Equipment Operators, Other

Asc/LT4   48.0201: Graphic and Printing Equipment Operator, General
48.0205: Mechanical Typesetter and Composer
48.0206: Lithographer and Platemaker
48.0208: Printing Press Operator
48.0299: Graphic and Printing Equipment Operators, Other

55284. Laboratory Technician Programmes. This program group code as defined in ISCED corresponds to data reported for programs which train non-medical laboratory technicians and assistants. In the United States, the corresponding programs which are not reported under broad field 554 pertain to the training of personnel to assist scientists in both the laboratory and the field. These include:

LT1/LT2   *41.0101: Biological Technology/Technician*
41.0301: Chemical Technology/Technician
41.0399: Physical Science Technologies/Technicians, Other
41.9999: Science Technologies/Technicians, Other

Asc/LT4   41.0101: Biological Technology/Technician
41.0301: Chemical Technology/Technician

41.0399: Physical Science Technologies/Technicians, Other
41.9999: Science Technologies/Technicians, Other

55286. Optical-Lens-Making Programmes. No U.S. program data exist that pertain to industrial lens-making and other non-medical optical processes as defined by this ISCED program group code. Medical optics program data are reported under broad field 550; lens-making is part of these programs and cannot be disaggregated in a manner corresponding to this ISCED program group definition.

55299. Other Trade, Craft and Industrial Programmes, n.e.c. This program group code as defined in ISCED corresponds to data reported for the following U.S. code:

LT1/LT2   48.9999: Precision Production Trades, Other

Asc/LT4   48.9999: Precision Production Trades, Other

554. Engineering Programmes

Engineering degrees are not offered in the United States at the less-than-4-year level. Pre-engineering programs that prepare students to transfer to 4-year institutions are common, however, and these programs frequently carry the title of the engineering specialty for which they are preparatory. In addition, appropriate U.S. engineering-related technology programs are reported here, as are data on drafting programs. (U.S. drafting program data are not included with engineering or engineering technology, but rather with trades and industry program data.)

55402. Programmes in Surveying. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs in surveying, which prepare students to take licensed surveyor examinations or to become surveyor's assistants. (Surveyors are also prepared at higher levels.) ISCED code 55402 corresponds to:

LT1/LT2   15.1102: Surveying

Asc/LT4   15.1102: Surveying

55406. Programmes in Drafting and Design. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs in engineering design and drafting. They include:

LT1/LT2	*14.2901: Engineering Design*
	48.0101: Drafting, General
	48.0102: Architectural Drafting
	48.0103: Civil/Structural Drafting
	48.0104: Electrical/Electronics Drafting
	48.0105: Mechanical Drafting
	48.0199: Drafting, Other

Asc/LT4	*14.2901: Engi.ieering Design*
	48.0101: Drafting, General
	48.0102: Architectural Drafting
	48.0103: Civil/Structural Drafting
	48.0104: Electrical/Electronics Drafting
	48.0105: Mechanical Drafting
	48.0199: Drafting, Other

55412. Programmes in Chemical Engineering and Materials Techniques. While some data on pre-engineering programs corresponding to this ISCED program group are reported in the United States, most data pertain to programs preparing students in plastics technology. No other specific material technology data can be disaggregated from program data reported under other categories. ISCED code 55412 thus includes only:

| LT1/LT2 | **15.0607: Plastics Technology/Technician** |

Asc	*14.0601: Ceramic Sciences and Engineering*
	14.0701: Chemical Engineering
	15.0607: Plastics Technology/Technician

55416. Programmes in Civil Engineering Techniques. While some data on pre-engineering programs corresponding to this ISCED program group are reported in the United States, most data pertain to programs preparing students in civil engineering-related technologies or for transfer to bachelor's degree programs, and to programs providing short refresher courses for professional engineers. ISCED code 55416 includes:

LT1/LT2	**14.0801: Civil Engineering, General**
	15.0201: Civil Engineering/Civil Technology/Technician
	15.1001: Construction/Building Technology/Technician

Asc/LT4	**14.0801: Civil Engineering, General**
	15.0201: Civil Engineering/Civil Technology/Technician
	15.1001: Construction/Building Technology/Technician

55422. Programmes in Electrical and Electronics Engineering Techniques. While some data on pre-engineering programs corresponding to this ISCED program group are reported in the United States, most data pertain to programs preparing students in electrical engineering-related technologies or programs providing short refresher courses for professional engineers. ISCED code 55422 includes:

LT1/LT2
- 14.1001: Electrical, Electronics and Communications Engineering
- 15.0301: Computer Engineering Technology/Technician
- 15.0303: Electrical, Electronic and Communications Engineering Technology/Technician
- 15.0399: Electrical and Electronic Engineering-Related Technologies/Technicians, Other
- 15.0402: Computer Maintenance Technology/Technician
- 15.0403: Electromechanical Technology/Technician
- 15.0404: Instrumentation Technology/Technician
- 15.0405: Robotics Technology/Technician
- 15.0499: Electromechanical Instrumentation and Maintenance Technologies/Technicians, Other

Asc/LT4
- 14.0901: Computer Engineering
- 14.1001: Electrical, Electronics and Communications Engineering
- 15.0301: Computer Engineering Technology/Technician
- 15.0303: Electrical, Electronic and Communications Engineering Technology/Technician
- 15.0399: Electrical and Electronic Engineering-Related Technologies/Technicians, Other
- 15.0402: Computer Maintenance Technology/Technician
- 15.0403: Electromechanical Technology/Technician
- 15.0404: Instrumentation Technology/Technician
- 15.0405: Robotics Technology/Technician
- 15.0499: Electromechanical Instrumentation and Maintenance Technologies/Technicians, Other

55426. Programmes in Industrial Engineering Techniques. While some data on pre-engineering programs corresponding to this ISCED program group are reported in the United States, most data pertain to programs preparing students in industrial engineering-related technologies (which includes occupational safety in the United States) or programs providing short refresher courses for professional engineers. ISCED code 55426 includes:

LT1/LT2
- *14.1701: Industrial/Manufacturing Engineering*
- 15.0603: Industrial/Manufacturing Technology/Technician

15.0699: Industrial Production Technologies/Technicians, Other
15.0701: Occupational Safety and Health Technology/Technician
15.0702: Quality Control Technology/Technician
15.0799: Quality Control and Safety Technologies/Technicians, Other

Asc/LT4   14.1701: Industrial/Manufacturing Engineering
15.0603: Industrial/Manufacturing Technology/Technician
15.0699: Industrial Production Technologies/Technicians, Other
15.0701: Occupational Safety and Health Technology/Technician
15.0702: Quality Control Technology/Technician
15.0799: Quality Control and Safety Technologies/Technicians, Other

55432. Programmes in Metallurgical Engineering Techniques. While some data on pre-engineering programs corresponding to this ISCED program group are reported in the United States, most data pertain to programs preparing students in metallurgical technology or programs providing short refresher courses for professional engineers. ISCED code 55432 includes:

LT2   *15.0611: Metallurgical Technology/Technician*

Asc/LT4   *14.2001: Metallurgical Engineering*
15.0611: Metallurgical Technology/Technician

55436. Programmes in Mining Engineering Techniques. The U.S. program data corresponding to this ISCED program group pertain to programs preparing students in mining technology. ISCED code 55436 includes:

LT2   *15.0999: Mining Technology/Technician*

Asc   15.0901: Mining Technology/Technician
15.0999: Mining and Petroleum Technologies/Technicians, Other

55442. Programs in Mechanical Engineering Techniques. While some data on pre-engineering programs corresponding to this ISCED program group are reported in the United States, most data pertain to programs preparing students in various mechanical technologies or programs providing short refresher courses for professional engineers. ISCED code

55442 includes:

LT1/LT2 *14.0201: Aerospace, Aeronautical and Astronautical Engineering*
    14.1901: Mechanical Engineering
    14.2201: Naval Architecture and Marine Engineering
    **15.0801: Aeronautical and Aerospace Engineering Technology/
    Technician**
    15.0803: Automotive Engineering Technology/Technician
    **15.0805: Mechanical Engineering/Mechanical Technology/
    Technician**
    **15.0899: Mechanical Engineering-Related Technologies/
    Technicians, Other**

Asc/LT4 **14.0201: Aerospace, Aeronautical and Astronautical Engineering**
    14.1901: Mechanical Engineering
    14.2201: Naval Architecture and Marine Engineering
    **15.0801: Aeronautical and Aerospace Engineering Technology/
    Technician**
    15.0803: Automotive Engineering Technology/Technician
    **15.0805: Mechanical Engineering/Mechanical Technology/
    Technician**
    **15.0899: Mechanical Engineering-Related Technologies/
    Technicians, Other**
    15.1103: Hydraulics Technology/Technician

55452. Programmes in Agricultural, Forestry and Fishery Engineering Techniques.
There are no U.S. data corresponding to this program group code which can be
disaggregated from other agricultural- and natural resources-related program data (see 55453
below and also broad field 562).

55453. Agricultural Engineering Programmes. This program group code should be
inserted at level 5 (it appears at levels 6 and 7) to report data consistently on U.S.
agricultural engineering programs at the su: -bachelor's degree level. Such data cannot be
reported under 55452 (see above) without destroying the organizational consistency of the
crosswalk. ISCED code 55453 corresponds to:

LT1   *14.0301: Agricultural Engineering*

55499. Other Engineering Programmes. This program group code as defined in ISCED
corresponds to data reported for a wide variety of programs for which no specific ISCED
assignment exists. Most of these program data pertain to engineering technology programs.

but some pre-engineering transfer and short refresher programs are also included. ISCED code 55499 includes:

LT1/LT2
14.0101: **Engineering, General**
14.0501: *Bioengineering and Biomedical Engineering*
14.1101: *Engineering Mechanics*
14.1301: *Engineering Science*
14.2801: *Textile Sciences and Engineering*
14.9999: *Engineering, Other*
15.0304: **Laser and Optical Technology/Technician**
15.0401: **Biomedical Engineering-Related Technology/ Technician**
15.0501: **Heating, Air Conditioning and Refrigeration Technology/Technician**
15.0503: **Energy Management and Systems Technology/Technician**
15.0505: *Solar Technology/Technician*
15.0506: **Water Quality and Wastewater Treatment Technology/ Technician**
15.0599: **Environmental Control Technologies/Technicians, Other**
15.0903: **Petroleum Technology/Technician**
15.9999: **Engineering-Related Technologies/Technicians, Other**
41.0204: *Industrial Radiologic Technology/Technician*
41.0205: *Nuclear/Nuclear Power Technology/Technician*

Asc/LT4
14.0101: **Engineering, General**
14.1301: **Engineering Science**
14.1401: *Environmental/Environmental Health Engineering*
14.2801: *Textile Sciences and Engineering*
14.9999: **Engineering, Other**
15.0304: **Laser and Optical Technology/Technician**
15.0401: **Biomedical Engineering-Related Technology/ Technician**
15.0501: **Heating, Air Conditioning and Refrigeration Technology/Technician**
15.0503: **Energy Management and Systems Technology/Technician**
15.0505: **Solar Technology/Technician**
15.0506: **Water Quality and Wastewater Treatment Technology/ Technician**
15.0507: *Environmental and Pollution Control Technology/ Technician*
15.0599: **Environmental Control Technologies/Technicians, Other**

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15.0903: Petroleum Technology/Technician
15.1101: Engineering-Related Technology/Technician, General
15.9999: Engineering-Related Technologies/Technicians,
 Other
41.0204: Industrial Radiologic Technology/Technician
41.0205: Nuclear/Nuclear Power Technology/Technician
41.0299: Nuclear and Industrial Radiologic Technologies/
 Technicians, Other

558. Architectural and Town-Planning Programmes

Architecture and professional urban planning programs are not offered at this level in the United States but, like engineering, may exist as preparatory transfer programs. Short programs for professional architects and planners may also be reported at this level (IPEDS LT1 and LT2), as may general introductory architecture appreciation programs. Some sub-bachelor's degree programs preparing individuals to assistant architects use titles similar to those of the professional specialty they support, and data for them are also reported here.

55801. General Programmes in Architecture. This program group code as defined in ISCED corresponds to data reported on sub-bachelor's degree preparatory programs (for transfer to 5- or 6-year bachelor of architecture programs) and other short programs using the same title. ISCED code 55801 includes:

LT2   04.0201: Architecture

Asc   04.0201: Architecture

55802. Programmes in Structural Architecture. This program group code as defined in ISCED corresponds to data reported on programs which are assigned to different locations in U.S. practice, principally engineering and related technologies. These programs, at level 5, include preparatory transfer programs, terminal programs for technicians, and short refresher programs for professionals. ISCED code 55802 includes:

LT1/LT2   04.0501: Interior Architecture
          14.0401: Architectural Engineering
          15.0101: Architectural Engineering Technology/Technician

Asc/LT4   04.0501: Interior Architecture
          14.0401: Architectural Engineering
          15.0101: Architectural Engineering Technology/Technician

55812. Programmes in Landscape Architecture. U.S. data corresponding to this ISCED program group code are few and pertain to sub-bachelor's degree programs in landscaping that are offered in conjunction with architecture, either general or preparatory programs. The data include:

LT2   04.0601: Landscape Architecture

Asc   04.0601: Landscape Architecture

55822. Programmes in Town or Community Planning. Some sub-bachelor's degree program data corresponding to this ISCED program group code are reported in the United States, primarily at the associate degree level. Such programs may be preparatory or general programs for assistants or students planning professional studies; full professional programs are offered only at the bachelor's degree and higher levels. Reported data include:

LT2   04.0401: Architectural Environmenta! Design
                04.0701: Architectural Urban Design and Planning

Asc   **04.0401: Architectural Environmental Design**

55899. Other Programmes in Architecture and Town Planning. This program group code should be inserted at level 5 in order to report accurately U.S. data for architecture-related programs not elsewhere classified. What is reported corresponds to:

Asc   04.9999: Architecture and Related Programs, Other

562. Agricultural, Forestry and Fishery Programmes

In the ISCED system, this broad field includes programs related to veterinary medicine, whereas such programs are placed in the health professions and related sciences in U.S. data reporting. ISCED also combines forestry (which it defines to include wildlife management) and fishing programs with agriculture under this broad field, while U.S. classification practice separates them. U.S. programs at this level provide training for farmers and production specialists, research assistants, wholesale and retail supply and service workers, and basic preparation for persons intending to continue their studies at the bachelor's degree level.

56201. General Programmes in Agriculture. This program group code as defined in ISCED corresponds to data reported on U.S. sub-bachelor's degree general programs in agricultural sciences and business operations. It includes:

LT1/LT2	01.0101: Agricultural Business and Management, General
	01.0301: Agricultural Production Workers and Managers, General
	02.0101: Agriculture/Agricultural Sciences, General

Asc/LT4	01.0101: Agricultural Business and Management, General
	01.0301: Agricultural Production Workers and Managers, General
	02.0101: Agriculture/Agricultural Sciences, General

56203. Animal Husbandry Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. programs which prepare agricultural workers and research assistants who specialize in domestic animals. ISCED code 56203 corresponds to:

LT1/LT2	01.0302: Agricultural Animal Husbandry and Production Management
	01.0303: Aquaculture Operations and Production Management
	01.0399: Agricultural Production Works and Managers, Other
	02.0201: Animal Sciences, General
	02.0203: Agricultural Animal Health
	02.0206: Dairy Science
	02.0209: Poultry Science
	02.0299: Animal Sciences, Other

Asc/LT4	01.0302: Agricultural Animal Husbandry and Production Management
	01.0303: Aquaculture Operations and Production Management
	01.0399: Agricultural Production Works and Managers, Other
	02.0201: Animal Sciences, General
	02.0202: Agricultural Animal Breeding and Genetics
	02.0203: Agricultural Animal Health
	02.0205: Agricultural Animal Physiology
	02.0206: Dairy Science
	02.0209: Poultry Science
	02.0299: Animal Sciences, Other

56206. Horticulture Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs in horticulture science and the provision of various horticultural services. It corresponds to:

| LT1/LT2 | 01.0601: Horticulture Services Operations and Management, General |

01.0603: Ornamental Horticulture Operations and Management
01.0604: Greenhouse Operations and Management
01.0605: Landscaping Operations and Management
01.0606: Nursery Operations and Management
01.0607: Turf Management
01.0699: Horticulture Services Operations and Management, Other
02.0403: Horticulture Science

Asc/LT4   **01.0601:** Horticulture Services Operations and Management, General
01.0603: Ornamental Horticulture Operations and Management
01.0604: Greenhouse Operations and Management
01.0605: Landscaping Operations and Management
01.0606: Nursery Operations and Management
01.0607: Turf Management
01.0699: Horticulture Services Operations and Management, Other
02.0403: Horticulture Science

56208. Crop Husbandry Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs in crop production and domesticated plant sciences. It corresponds to:

LT1/LT2   *02.0402: Agronomy and Crop Science*
02.0408: Plant Protection (Pest Management)
02.0499: Plant Sciences, Other

Asc/LT4   **01.0304:** Crop Production Operations and Management
02.0401: Plant Sciences, General
02.0402: Agronomy and Crop Science
02.0408: Plant Protection (Pest Management)
02.0409: Range Science and Management
02.0499: Plant Sciences, Other

56212. Agricultural Economics Programmes. This program group code as defined in ISCED includes various farm management and business-related subjects as well as agricultural economics. The corresponding U.S. program data are reported under:

LT1/LT2   **01.0102:** Agricultural Business/Agribusiness Operations
01.0104: Farm and Ranch Management
01.0199: Agricultural Business and Management, Other

Asc/LT4   **01.0102: Agricultural Business/Agribusiness Operations**
01.0103: Agricultural Economics
01.0104: Farm and Ranch Management
01.0199: Agricultural Business and Management, Other

56222. Food Science and Technology Programmes. This ISCED program group code should be inserted at level 5 (it appears only at levels 6 and 7) in order to accurately report data on U.S. sub-bachelor's degree programs in the industrial production of food products from agricultural raw materials. It includes:

Asc   *02.0301: Food Science and Technology*

56226. Soil and Water Technician Programmes. ISCED defines this program group code as referring to soil and water programs of different types at different levels. U.S. water resources programs pertaining to agriculture cannot be disaggregated from water resources programs reported under engineering and related technologies (see broad field 554) or elsewhere in the agriculture field. Any data on soil quality technician programs at level 5 are reported under:

Asc   *02.0501: Soil Sciences*

56232. Veterinarian Technician Programmes. Veterinary medicine is a graduate-level field of study in the U.S. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs that train veterinary assistants or provide the first 2 years of the 4-year preparatory program required prior to entry into veterinary medicine programs. ISCED code 56232 includes:

LT1/LT2   **51.0808: Veterinary Assistant/Animal Health Technician**

Asc/LT4   **51.0808: Veterinary Assistant/Animal Health Technician**
51.1104: Pre-Veterinary Studies

56249. Other Programmes in Agriculture. A number of other agriculture-related programs are not assigned specific ISCED codes and should be reported here to the extent that they produce sub-bachelor's degree data. They include:

LT1/LT2   **01.0201: Agricultural Mechanization, General**
01.0204: Agricultural Power Machinery Operator
01.0299: Agricultural Mechanization, Other
01.0501: Agricultural Supplies Retailing and Wholesaling

01.0505: *Animal Trainer*
01.0507: *Equestrian/Equine Studies, Horse Management and*
Training
01.0599: **Agricultural Supplies and Related Services, Other**
01.9999: **Agricultural Business and Production, Other**

Asc/LT4   01.0201: **Agricultural Mechanization, General**
01.0204: **Agricultural Power Machinery Operator**
01.0299: *Agricultural Mechanization, Other*
01.0501: **Agricultural Supplies Retailing and Wholesaling**
01.0505: *Animal Trainer*
01.0507: **Equestrian/Equine Studies, Horse Management and**
Training
01.0599: **Agricultural Supplies and Related Services, Other**
01.9999: **Agricultural Business and Production, Other**
02.9999: *Agriculture/Agricultural Sciences, Other*

56262. Programmes in Forestry and Forest-Product Techniques. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs in various forestry specializations and wildlife management. It includes:

LT1/LT2   03.0401: **Forest Harvesting and Production Technology/**
Technician
03.0404: **Forest Products Technology/Technician**
03.0405: *Logging/Timber Harvesting*
03.0499: *Forest Production and Processing, Other*
03.0502: *Forestry Sciences*
03.0601: **Wildlife and Wildlands Management**

Asc/LT4   03.0401: **Forest Harvesting and Production Technology/**
Technician
03.0404: **Forest Products Technology/Technician**
03.0499: **Forest Production and Processing, Other**
03.0501: **Forestry, General**
03.0502: **Forestry Sciences**
03.0506: **Forest Management**
03 0509: *Wood Science and Pulp/Paper Technology*
03.0599: **Forestry and Related Sciences, Other**
03.0601: **Wildlife and Wildlands Management**

56272. Fishery Technician Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs that prepare both

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commercial fishing workers and provide a basic grounding in fisheries science and the management of fishing operations. It includes:

LT1/LT2   03.0301: *Fishing and Fisheries Sciences and Management*
           49.0303: *Fishing Technology/Commercial Fishing*

Asc   **03.0301: Fishing and Fisheries Sciences and Management**

566. Home Economics (Domestic Science) Programmes

ISCED does not follow a home economics classification scheme similar to that used in the United States. In particular, several home economics-related vocational programs are reported elsewhere in ISCED, under either the trades and industry (broad field 552) or service trades (broad field 578) categories. Only programs corresponding to the ISCED definition of home economics and for which data are reported at this level are included below.

56601. General Programmes in Home Economics. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs in general home economics, including:

Asc/LT4   **19.0101: Home Economics, General**

56612. Programmes with Emphasis on Household Food Management and Nutrition.
This program group code as defined in ISCED includes institutional food services as well as home consumer programs. Sub-bachelor's degree program data are reported under the following corresponding CIP codes:

LT1/LT2   19.0402: *Consumer Economics and Science*
           19.0503: *Dietetics/Human Nutritional Services*
           20.0401: Institutional Food Workers and Administrators,
               General
           20.0404: Dietician Assistant
           20.0409: Institutional Food Services Administrator
           20.0499: Institutional Food Workers and Administrators,
               Other

Asc/LT4   19.0401: *Family Resource Management Studies*
           19.0402: *Consumer Economics and Science*
           19.0501: *Foods and Nutrition Studies, General*
           19.0502: *Foods and Nutrition Science*
           19.0503: Dietetics/Human Nutritional Services

> **20.0401: Institutional Food Workers and Administrators, General**
> **20.0404: Dietician Assistant**
> **20.0409: Institutional Food Services Administrator**
> **20.0499: Institutional Food Workers and Administrators, Other**

56622. Programmes with Emphasis on Child Care. This program group code as defined in ISCED corresponds to data reported on U.S. sub-bachelor's degree programs in child and family studies and the training of child care workers. It includes:

LT1/LT2
> *19.0701: Child Growth, Care, and Development Studies*
> *19.0701: Individual and Family Development Studies, Other*
> **20.0201: Child Care and Guidance Workers and Managers, General**
> **20.0202: Child Care Provider/Assistant**
> **20.0203: Child Care Services Manager**
> **20.0299: Child Care and Guidance Workers and Managers, Other**

Asc/LT4
> **19.0701: Individual and Family Development Studies, General**
> *19.0701: Child Growth, Care, and Development Studies*
> *19.0701: Individual and Family Development Studies, Other*
> **20.0201: Child Care and Guidance Workers and Managers, General**
> **20.0202: Child Care Provider/Assistant**
> **20.0203: Child Care Services Manager**
> **20.0299: Child Care and Guidance Workers and Managers, Other**

56632. Programmes with Emphasis on Household Arts. This program group code as defined in ISCED includes both housing/interiors studies and clothing and textile programs (other than those reported under broad field 552). Corresponding U.S. sub-bachelor's degree program for which data are reported include:

LT1/LT2
> *19.0901: Clothing/Apparel and Textile Studies*
> **20.0501: Home Furnishings and Equipment Installers and Consultants, General**
> *20.0502: Window Treatment Maker and Installer*
> **20.0599: Home Furnishings and Equipment Installers and Consultants, Other**

Asc/LT4	19.0601: *Housing Studies, General*
	19.0901: **Clothing/Apparel and Textile Studies**
	20.0501: **Home Furnishings and Equipment Installers and Consultants, General**
	20.0502: *Window Treatment Maker and Installer*
	20.0599: **Home Furnishings and Equipment Installers and Consultants, Other**

56699. Other Home Economics Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported on a variety of U.S. home economics programs, including:

LT1/LT2	20.0601: **Custodial, Housekeeping and Home Services Workers and Managers, General**
	20.0602: *Elder Care Provider/Companion*
	20.0606: *Homemaker's Aide*
	20.0699: *Custodial, Housekeeping and Home Services Workers and Managers, Other*
	20.9999: **Vocational Home Economics, Other**

Asc	19.9999: *Home Economics, Other*
	20.0601: *Custodial, Housekeeping and Home Services Workers and Managers, General*
	20.9999: **Vocational Home Economics, Other**

570. Transport and Communications Programmes

This ISCED broad field, as defined, includes several programs classified in the United States as trades and industry programs. Where corresponding U.S. program codes exist, they are listed below as they should appear in reports using ISCED. Many of these programs are of short duration and limited scope, especially the vehicle operator and crew training programs. Others involve training for managerial and broader technical responsibilites and are several years in duration. These latter programs may also prepare students to transfer to bachelor's degree programs.

57002. Air Crew Programmes. ISCED defines this program group to exclude all aviation transportation programs other than flight crew training. Consequently, the only data to be reported here are for the following U.S. air crew programs:

| LT1/LT2 | 49.0102: **Aircraft Pilot and Navigator (Professional)** |
| | 49.0106: **Flight Attendant** |

49.0107: Aircraft Pilot (Private)

Asc/LT4   49.0102: Aircraft Pilot and Navigator (Professional)
            49.0106: Flight Attendant
            49.0107: Aircraft Pilot (Private)

57004. Ships' Officer Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs that train merchant marine and private shipboard personnel, including officers and other trained hands. It includes:

LT1/LT2   *49.0309: Marine Science/Merchant Marine Officer*
            49.0399: Water Transportation Workers, Other

Asc/LT4   *49.0309: Marine Science/Merchant Marine Officer*
            49.0399: Water Transportation Workers, Other

57006. Railway Operation Programmes. No U.S. data exist that correspond to this program group code. Virtually no such programs are known to be offered by U.S. postsecondary institutions, and data for any that exist would be reported under the "other" category (see 57008 and 57029 below) and not be disaggregated.

57008. Road Motor Vehicle Operation Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs training operators of land vehicles (other than construction and farm vehicles; see broad fields 552 and 562). It includes:

LT1/LT2   **49.0205: Truck, Bus and Other Commercial Vehicle Operator**
            49.0299: Vehicle and Equipment Operators, Other

Asc/LT4   *49.0205: Truck, Bus and Other Commercial Vehicle Operator*
            49.0299: Vehicle and Equipment Operators, Other

57026. Postal Services Programmes Except Electronics Equipment Installation and Servicing. No U.S. data exist that correspond to this program group code. U.S. postal workers get job-specific training in U.S. Postal Service training programs; any additional education received would be acquired in other settings and not distinguishable as postal services programs *per se*.

57029. Other Communications Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for the following U.S. program codes:

LT1/LT2   **49.0101: Aviation and Airway Science**
49.0104: Aviation Management
49.0105: Air Traffic Controller
49.0199: Air Transportation Workers, Other
49.0304: Diver (Professional)
49.9999: Transportation and Materials Moving Workers, Other

Asc/LT4   **49.0101: Aviation and Airway Science**
49.0104: Aviation Management
49.0105: Air Traffic Controller
49.0199: Air Transportation Workers, Other
49.0304: Diver (Professional)
49.9999: Transportation and Materials Moving Workers, Other

578. Service Trades Programmes

This ISCED broad field includes a variety of programs that in the United States are classified under business, marketing operations, home economics, and personal services. They are reported here for purposes of the ISCED crosswalk. Only a few of the programs listed below are also offered at higher levels; most are terminal at the sub-bachelor's degree level and prepare students directly for work.

57812. Barbering and Beauty Culture Programmes. This program group code should be inserted at level 5 (it appears only at level 3) to report data accurately on U.S. cosmetics and beauty culture programs. It corresponds to:

LT1/LT2   **12.0401: Cosmetic Services, General**
12.0402: Barber/Hairstylist
12.0403: Cosmetologist
12.0404: Electrolysis Technician
12.0405: Massage
12.0406: Make-Up Artist
12.0499: Cosmetic Services, Other

Asc/LT4   **12.0402: Barber/Hairstylist**
12.0403: Cosmetologist

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12.0405: Massage
12.0499: Cosmetic Services, Other

57822. Hotel and Restaurant Trades Programmes. This program group code should be inserted at level 5 (it appears only at level 3) to report data accurately on U.S. hotel and restaurant operations programs. Such programs, at the sub-bachelor's degree level, train retail service personnel, operational managers and supervisors, and specialists in various support occupations. ISCED code 57822 corresponds to:

LT1/LT2
  08.0901: Hospitality and Recreation Marketing Operations, General
  08.0902: Hotel/Motel Services Marketing Operations
  12.0504: Food and Beverage/Restaurant Operations Manager
  20.0604: Custodian/Caretaker
  20.0605: Executive Housekeeper

Asc/LT4
  08.0901: Hospitality and Recreation Marketing Operations, General
  08.0902: Hotel/Motel Services Marketing Operations
  08.0903: Recreation Products/Services Marketing Operations
  08.0999: Hospitality and Recreation Marketing Operations, Other
  12.0504: Food and Beverage/Restaurant Operations Manager
  20.0605: Executive Housekeeper
  20.0604: Custodian/Caretaker

57826. Programmes in Cooking (Restaurant and Hotel Type). This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs that train professional chefs and other workers in the culinary arts occupations. It includes:

LT1/LT2
  12.0501: Baker/Pastry Chef
  12.0502: Bartender/Mixologist
  12.0503: Culinary Arts/Chef Training
  12.0505: Kitchen Personnel/Cook and Assistant Training
  12.0507: Waiter/Waitress and Dining Room Manager
  12.0599: Culinary Arts and Related Services, Other
  20.0405: Food Caterer

Asc/LT4
  12.0501: Baker/Pastry Chef
  12.0503: Culinary Arts/Chef Training
  12.0599: Culinary Arts and Related Services, Other

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57842. Laundry and Dry-Cleaning Trades Programmes. This program group code should be inserted at level 5 (it appears only at level 3) to report data accurately on U.S. programs in laundry and drycleaning. It corresponds to:

LT1/LT2   **20.0309: Drycleaner and Launderer (Commercial)**

Asc   *20.0309: Drycleaner and Launderer (Commercial)*

57862. Retailing Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for a variety of U.S. programs that train retail sales personnel in different product specializations. It includes:

LT1/LT2   **08.0101: Apparel and Accessories Marketing Operations,**
                 General
             08.0102: Fashion Merchandising
             08.0103: Fashion Modeling
             08.0199: Apparel and Accessories Marketing Operations,
                 Other
             08.0299: Business and Personal Services Marketing Operations,
                 Other
             08.0401: Financial Services Marketing Operations
             08.0503: Flor¦.,try Marketing Operations
             08.0601: Food Products Retailing and Wholesaling Operations
             08.0809: Home Products Marketing Operations
             08.1001: Insurance Marketing Operations
             08.1203: Vehicle Parts and Accessories Marketing Operations
             08.1299: Vehicle and Petroleum Products Marketing Operations,
                 Other
             08.9999: Marketing Operations/Marketing and Distribution,
                 Other

Asc/LT4   **08.0101: Apparel and Accessories Marketing Operations,**
                 General
             08.0102: Fashion Merchandising
             08.0199: Apparel and Accessories Marketing Operations,
                 Other
             08.0299: Business and Personal Services Marketing Operations,
                 Other
             08.0401: Financial Services Marketing Operations
             08.0503: Floristry Marketing Operations
             08.0601: Food Products Retailing and Wholesaling Operat.ons
             08.0809: Home Products Marketing Operations
             08.0899: Home and Office Products Marketing Operations,

Other
08.1001: Insurance Marketing Operations
08.1203: Vehicle Parts and Accessories Marketing Operations
08.1299: Vehicle and Petroleum Products Marketing Operations,
    Other
08.9999: Marketing Operations/Marketing and Distribution,
    Other

57872. Tourist Trades Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs training retail services workers and office assistants for the travel and tourism industry. It includes:

LT1/LT2   **08.1104: Tourism Promotion Operations**
    08.1105: Travel Services Marketing Operations
    08.1199: Tourism and Travel Services Marketing Operations,
        Other

Asc/LT4   **08.1104: Tourism Promotion Operations**
    08.1105: Travel Services Marketing Operations
    08.1199: Tourism and Travel Services Marketing Operations,
        Other

57899. Other Service Trades Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs in several services occupations which are not assigned specific ISCED codes. It includes:

LT1/LT2   *12.0203: Card Dealer*
    12.0299: Gaming and Sports Officiating Services, Other
    12.0301: Funeral Services and Mortuary Science
    12.9999: Personal and Miscellaneous Services, Other

Asc/LT4   **12.0301: Funeral Services and Mortuary Science**
    12.9999: Personal and Miscellaneous Services, Other

584. Programmes in Mass Communications and Documentation

This ISCED broad field code includes the journalism and communications fields, library science and related fields, and miscellaneous technical programs associated with audiovisual communications. Each of these is reported separately in the United States, but they are combined for ISCED reporting purposes. At the sub-bachelor's degree level these programs prepare assistants and technical support personnel.

58402. Programmes in Journalism. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs related to journalism and mass communications, including:

LT1/LT2	**09.0401: Journalism**
Asc/LT4	**09.0401: Journalism** *09.0403: Mass Communications*

58404. Programmes in Radio and Television Broadcasting. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs related to broadcast communications, including:

LT1/LT2	**09.0402: Broadcast Journalism** **09.0701: Radio and Television Broadcasting** **10.0104: Radio and Television Broadcasting Technology/ Technician**
Asc/LT4	**09.0402: Broadcast Journalism** **09.0701: Radio and Television Broadcasting** **10.0104: Radio and Television Broadcasting Technology/ Technician**

58407. Public Relations Programmes. This program group code as defined in ISCED corresponds to data reported for associate degree programs under the following code:

Asc	**09.0501: Public Relations and Organizational Communications**

58409. Other Programmes in Communications Arts. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. communications programs not elsewhere classified, including:

LT1/LT2	**09.0101: Communications, General** **09.9999: Communications, Other** **10.0101: Educational/Instructional Media Technology/ Technician** **10.0199: Communications Technologies/Technicians, Other**
Asc/LT4	**09.0101: Communications, General** **09.9999: Communications, Other**

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**10.0101: Educational/Instructional Media Technology/
Technician
10.0199: Communications Technologies/Technicians, Other**

58422. Library Technician Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs training library assistants and support personnel, including:

LT1/LT2   *25.0101: Library Science/Librarianship*
           25.0301: Library Assistant

Asc   **25.0101: Library Science/Librarianship**
         25.0301: Library Assistant
         25.9999: Library Science, Other

58425. Programmes for Technicians in Museums and Similar Repositories. Most U.S. program data corresponding to this program group code are subsumed under other headings (such as art history, music instrument repair, historic preservation, etc.) and cannot be disaggregated. As defined, this code only corresponds to sub-bachelor's degree data reported for:

LT1   *30.1401: Museology/Museum Studies*

Asc   *30.1401: Museology/Museum Studies*

58429. Programmes in Documentation Techniques, n.e.c. No corresponding U.S. program data, other than that reported in other locations (see 52251, 58422, and 58425), exist.

589. Other Programmes of Education at the Third Level, First Stage of the Type that Leads to an Award Not Equivalent to a First University Degree

ISCED uses this broad field to report data on a variety of classified programs as well as "other" or "unknown" programs. The identifiable program classifications assigned here include social work, community organization, R.O.T.C. programs, public safety (fire and law enforcement) programs, physical education and recreation, and natural resources and conservation. Any such data reported at this level refers to programs that prepare assistants and support personnel; train entry-level workers; provide the basis for transfer to a higher level program (where one exists); or provide short courses for professional continuing education or casual interest.

58912. Programmes in Police Work and Related Law Enforcement. This program group code as defined in ISCED corresponds to data reported for U.S. programs training police, prison, and public safety personnel at the sub-bachelor's degree level. It includes:

LT1/LT2	43.0102: Corrections/Correctional Administration
	43.0103: Criminal Justice/Law Enforcement Administration
	43.0104: Criminal Justice Studies
	43.0106: Forensic Technology/Technician
	43.0107: Law Enforcement/Police Science
	43.0109: Security and Loss Prevention Services
	43.0199: Criminal Justice and Corrections, Other
Asc/LT4	43.0102: Corrections/Correctional Administration
	43.0103: Criminal Justice/Law Enforcement Administration
	43.0104: Criminal Justice Studies
	43.0106: Forensic Technology/Technician
	43.0107: Law Enforcement/Police Science
	43.0109: Security and Loss Prevention Services
	43.0199: Criminal Justice and Corrections, Other

58913. Programmes in Criminology. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data consistently on U.S. programs that use the title "criminology." These programs, at level 5, are similar to the police training programs listed under 58912 and frequently prepare students to transfer to bachelor's degree programs in either law enforcement or the academic study of criminology. ISCED code 58913 includes:

Asc	45.0401: Criminology

58915. Fire-Protection and Fire-Fighting Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. programs training firefighting and fire safety personnel at the sub-bachelor's degree level. It includes:

LT1/LT2	43.0201: Fire Protection and Safety Technology/Technician
	43.0202: Fire Services Administration
	43.0203: Fire Science/Firefighting
	43.0299: Fire Protection, Other
Asc/LT4	43.0201: Fire Protection and Safety Technology/Technician
	43.0202: Fire Services Administration
	43.0203: Fire Science/Firefighting

43.0299: Fire Protection, Other

58917. Military Programmes. Aside from one specialized field, military technologies, the United States armed services do not grant degrees, nor do U.S. educational institutions, in specific military fields. Officers and enlisted personnel who possess postsecondary qualifications concentrate in civilian subjects such as engineering, business, and history, and their degrees —even from the service academies —reflect regular academic studies. It is possible for personnel who have been commissioned as officers under the Reserve Officer Training Program (ROTC), which occurs on civilian campuses, to occasionally be listed as completing such programs in addition to their actual major. Students in sub-bachelor's degree programs may join what is called Junior ROTC, which allows those in good standing to transfer into a regular (bachelor's degree level) ROTC program. Data on ROTC completions are not routinely reported because they do not lead to academic awards. Thus, the only data corresponding to this program group code which are normally reported would be under the following code:

Asc   *29.0101: Military Technologies*

58919. Other Programmes in Civil Security. This program group code as defined in ISCED corresponds only to the following U.S. code:

LT1/LT2   **43.9999: Protective Services, Other**

Asc/LT4   **43.9999: Protective Services, Other**

58932. Programmes in Social Work. This program group code as defined in ISCED is the place to report sub-bachelor's degree data on a variety of U.S. social and community assistance programs, including social work. As defined, it corresponds to:

LT1/LT2   *19.0301: Family and Community Studies*
               19.0704: Family Life and Relations Studies
               19.0705: Gerontological Services
               44.0201: Community Organization, Resources and Services
               44.0701: Social Work

Asc/LT4   **19.0301: Family and Community Studies**
               19.0705: Gerontological Services
               44.0201: Community Organization, Resources and Services
               44.0701: Social Work

58942. Programmes in Vocational Counseling. There are no U.S. program data corresponding to this program group code, at this level, that can be disaggregated from codes reported elsewhere (see codes 55099 and 58932).

58952. Programmes in Environmental Studies. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs that train conservation assistants and field personnel and introduce students to the general study of the environment. It includes:

LT1/LT2	*03.0101: Natural Resources Conservation, General* *03.0102: Environmental Science/Studies* *03.0203: Natural Resources Law Enforcement and Protective Services* *03.9999: Conservation and Renewable Natural Resources, Other*
Asc/LT4	**03.0101: Natural Resources Conservation, General** **03.0102: Environmental Science/Studies** **03.0201: Natural Resources Management and Policy** *03.0203: Natural Resources Law Enforcement and Protective Services* *03.0299: Natural Resources Management and Protective Services, Other* **03.9999: Conservation and Renewable Natural Resources, Other**

58962. Programmes in Physical Education. This program group code is the appropriate place to report sub-bachelor's degree data on all U.S. physical education and related recreation programs that do not have to do with teacher education. As defined, it corresponds to:

LT1/LT2	**31.0101: Parks, Recreation and Leisure Studies** **31.0301: Parks, Recreation and Leisure Facilities Management** **31.0505: Exercise Sciences/Physiology and Movement Studies** *31.0599: Health and Physical Education/Fitness, Other* *31.9999: Parks, Recreation, Leisure and Fitness Studies, Other*
Asc/LT4	**31.0101: Parks, Recreation and Leisure Studies** **31.0301: Parks, Recreation and Leisure Facilities Management**

31.0503: Athletic Training and Sports Medicine
31.0504: Sport and Fitness Administration/Management
31.0505: Exercise Sciences/Physiology and Movement Studies
31.0599: Health and Physical Education/Fitness, Other
31.9999: Parks, Recreation, Leisure and Fitness Studies, Other

58999. Other Programmes of Education, n.e.c. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for the following U.S. programs which are classified nowhere else:

LT1/LT2   *30.¹101: Gerontology*
            30.⸱ 99: Multi/Interdisciplinary Studies, Other

Asc/LT4   **30.9999: Multi/Interdisciplinary Studies, Other**

CHAPTER 8

Crosswalking Data at Level 6:
Education at the Third Level, First Stage, of the
Type that Leads to a First University
Degree or Equivalent

ISCED level 6 corresponds to U.S. postsecondary programs as reported in the following IPEDS level categories:

Bac *Bachelor's Degree*
PBC *Postbaccalaureate Certificate*

The Bachelor's Degree. The bachelor's degree is the basic first degree awarded in U.S. postsecondary education. It is the degree required in order to be eligible both for postgraduate (in the United States, graduate) studies and for those first professional degrees which are preceeded by a bachelor's degree. In the United States bachelor's degrees are traditionally thought of as 4-year degrees, but this concept is becoming questionable on two counts. First, several professional bachelor's degree programs are longer than 4 years, including architecture (5 or 6 years), engineering (going to 5 years), and pharmacy (5 years). Second, research has demonstrated that students in other concentrations are tending to take longer than 4 years to complete the degree. Currently the mean time taken to earn a "4-year" bachelor's degree in any subject is approximately 5.5 calendar years.[26]

ISCED requires the basic undergraduate, or "first" degree awarded by universities or equivalent institutions, to be reported at this level. The bachelor's degree fits that description in the United States and represents completion of a full undergraduate program of studies, which includes a concentration in at least one subject field. U.S. bachelor's degrees may or may not be equivalent to other first-university degrees, depending on the content and quality of an individual student's prior schooling and the content and quality of the bachelor's degree program being pursued at a given institution. These issues are not regulated in the United States at the national level and are outside the scope of the ISCED system. Therefore, no official guidance about the equivalency of any individual U.S. or foreign degree program is intended or should be inferred by this statistical interpretation of level 6.

The Postbaccalaureate Certificate. Postbaccalaureate certificates are infrequently awarded; when they are, they tend to represent an extra semester or more of work that enables a student to meet a professional requirement or earn credit for some academic specialization.

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[26] See Nabeel Alsalam and Gayle Thompson Rogers, *The Condition of Education 1991 — Vol. 2: Postsecondary Education*, (Washington: U.S. Government Printing Office, June 1991), Indicator 2.6, pp.30-31 and 124-125. Time-to-bachelor's degree varies by field as well as by characteristics of the student population. As of 1986 data, only 45.5 percent of all respondents to the national Recent College Graduates Survey (RCG) reported taking 4 years or less to complete a bachelor's degree. The majority took between 4 and 6 years, while 27 percent took over 6 years.

Examples include earning the credits required for an entry-level teaching certificate; gaining credit for specialized computer skills; or obtaining a certificate of specialization in a subject such as a foreign language or area studies. Each of these examples pertains to an undergraduate program which is completed subsequent to earning the bachelor's degree, and therefore does not represent graduate-level study.

Since relatively few postbaccalaureate certificates are awarded, the following list presents the CIP codes for which significant PBC level IPEDS data are reported, together with the corresponding ISCED codes.

Programs Reporting Significant PBC Data, by ISCED Code		
ISCED Code	CIP Code	CIP Program Title
61401	13.0101	Education, General
	13.1202	Elementary Teacher Education
	13.1205	Secondary Teacher Education
61404	13.1302	Art Teacher Education
	13.1305	English Teacher Education
	13.1311	Mathematics Teacher Education
	13.1314	Physical Education Teaching and Coaching
	13.1316	Science Teacher Education, General
	13.1317	Social Science Teacher Education
	13.1401	Teaching English as a Second Language/Foreign Language
61408	13.1303	Business Teacher Education
61412	13.1204	Pre-Elementary/Early Childhood/Kindergarten Teacher Education
61422	13.1001	Special Education, General
61499	13.1101	Counselor Education/Counseling and Guidance Services
	13.1399	Teacher Education, Specialized Academic and Vocational Programs, Other
	13.9999	Education, Other
61822	50.0903	Music — General Performance
62600	39.0201	Bible/Biblical Studies

	39.0401	*Religious Education*
	39.0601	*Theology/Theological Studies*
	39.0699	*Theological and Ministerial Studies, Other*
	39.9999	*Theological Studies and Religious Vocations, Other*
63012	45.0601	*Economics, General*
63052	42.9999	*Psychology, Other*
63099	05.0207	*Women's Studies*
63401	52.0101	*Business, General*
	52.0201	*Business Administration and Management, General*
63432	52.0301	*Accounting*
63439	52.1101	*International Business*
63452	44.0401	*Public Administration*
63462	13.0401	*Education Administration and Supervision, General*
64601	27.0101	*Mathematics*
64641	11.0101	*Computer and Information Sciences, General*
	11.0401	*Information Sciences and Systems*
65012	51.1604	*Nursing Anesthetist*
65030	51.1004	*Medical Laboratory Technician*
	51.1005	*Medical Technology*
66612	19.0503	*Dietetics/Human Nutritional Services*
68932	19.0705	*Gerontological Services*

As can been seen from the reported data patterns, PBC level awards are most common in professional fields. Insignificant PBC data are also reported, particularly in the fields of engineering, area studies, foreign languages, allied health occupations, and business. PBC data are not presented elsewhere in chapter 8, but complete crosswalk instructions for such data are provided in the appendix.

601. General Programmes

60100. General Programmes. This program group code corresponds to U.S. degree programs which represent either: (a) an individualized program of studies designed by a student under faculty supervision and not corresponding to a regular major field; or (b) a structured program encompassing the interdisciplinary study of broad themes or issues, usually from a humanistic or social scientific perspective. It includes:

> Bac   24.0101: Liberal Arts and Sciences/Liberal Studies
> 24.0102: General Studies
> 24.0199: Liberal Arts and Sciences/General Studies and
> Humanities, Other

614. Programmes in Education Science and Teacher-Training

The bachelor's degree is the basic entry-level qualification for persons seeking to become teachers at the PK-12 grade levels. Equivalent combinations of postsecondary education and work experience are accepted in some jurisdictions, especially as the movement toward alternative certification (which waives many traditional teacher education program requirements) gains acceptance. Post-baccalaureate certificates are sometimes earned by students who have completed an academic degree but wish to become certified to teach. Education fields other than teacher education are not frequently offered at the undergraduate level.

61401. General Teacher-Training Programmes. This program group code corresponds to data collected on unspecialized programs in education and programs that prepare students for teacher certification by grade level rather than by subject area. It includes:

> Bac   13.0101: Education, General
> 13.1202: Elementary Teacher Education
> 13.1203: Junior High/Intermediate/Middle School Teacher Education
> 13.1205: Secondary Teacher Education
> 13.1206: Teacher Education, Multiple Levels
> 13.1299: General Teacher Education, Other
> *13.1501: Teacher Assistant/Aide*

61404. Teacher-Training Programmes with Specialization in a Non-Vocational Subject. This program group code corresponds to U.S. data reported on the following programs which prepare subject-specific teachers in the academic and other non-vocational teaching specializations:

> Bac   13.1302: Art Teacher Education

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13.1305: English Teacher Fducation
13.1306: Foreign Language: Teacher Education, General
13.1307: Health Teacher Education
13.1311: Mathematics Teacher Education
13.1312: Music Teacher Education
13.1314: Physical Education Teaching and Coaching
13.1315: Reading Teacher Education
13.1316: Science Teacher Education, General
13.1317: Social Science Teacher Education, General
13.1318: Social Studies Teacher Education
1: ..321: Computer Teacher Education
13.1322: Biology Teacher Education
13.1323: Chemistry Teacher Education
13.'324: Drama and Dance Teacher Education
13.1325: French Language Teacher Education
13.1326: German Language Teacher Education
13.1328: History Teacher Education
13.1329: Physics Teacher Education
13.1330: Spanish Language Teacher Education
13.1331: Speech Teacher Education
13.1401: Teaching English as a Second Language/Foreign
Language

61408. Teacher-Training Programmes for Teachers of Practical or Vocational Subjects.
This program group code corresponds to U.S. data reported on the following programs
which prepare subject-specific teachers in the vocational and related teaching specializations:

Bac 13.1301: Agricultural Teacher Education
13.1303: Business Teacher Education
13.1304: Driver and Safety Teacher Education
13.1308: Home Economics Teacher Education
13.1309: Technology/Industrial Arts Teacher Education
13.1310: Marketing Operations/Marketing and Distribution Teacher
Education
13.1319: Technical Teacher Education
13.1320: Trade and Industrial Teacher Education
13.1327: Health Occupations Teacher Education

61412. Teacher-Training Programmes for Teaching Pre-School or Kindergarten. This
program group code corresponds to U.S. data reported for the following program preparing
teachers specializing in prekindergarten (nursery school) and kindergarten:

Bac   13.1204: Pre-Elementary/Early Childhood/Kindergarten
Teacher Education

61416. Teacher-Training Programmes for Teachers in Adult Education. This program group code corresponds to U.S. data reported for the following program preparing teachers specializing in adult basic education (literacy, basic skills, and high school equivalency programs) and continuing education:

Bac   **13.1201: Adult and Continuing Teacher Education**

61422. Teacher-Training for Teaching Handicapped Children. This program group code corresponds to U.S. data reported on the following programs preparing teachers specializing in the education of students with handicapping conditions or learning disabilities:

Bac   **13.1001: Special Education, General**
13.1003: Education of the Deaf and Hearing Impaired
13.1005: Education of the Emotionally Handicapped
13.1006: Education of the Mentally Handicapped
13.1007: Education of the Multiple Handicapped
13.1008: Education of the Physically Handicapped
13.1009: Education of the Blind and Visually Impaired
13.1011: Education of the Specific Learning Disabled
13.1012: Education of the Speech Impaired
13.1099: Special Education, Other

61432. Teacher Training for Teacher Trainers. No U.S. program data corresponding to this ISCED program group code exist. "Teacher trainers" other than faculty in postsecondary institutions do not exist, and faculty are prepared at the graduate level (ISCED level 7) in the various subject fields in which they teach and conduct research.

61472. Programmes in Education Science Without Teacher Training. This program group code needs to be inserted at ISCED level 6 in order to report data accurately on U.S. programs at the bachelor's degree level which provide students with an introduction to the academic study of education as a research field, rather than teacher preparation. ISCED code 61472 corresponds to:

Bac   **13.0301: Curriculum and Instruction**
13.0601: Educational Evaluation and Research
13.0603: Educational Statistics and Research Methods
13.0802: Educational Psychology

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61499. Other Specialized Teacher-Training Programmes. This program group code corresponds to U.S. data reported on programs that prepare specialized teachers, counselors, and other school personnel and do not fit under other ISCED program group codes in this field at level 6, including:

> Bac   13.0201: **Bilingual/Bicultural Education**
>   13.0501: **Educational/Instructional Media Design**
>   13.1004: **Education of the Gifted and Talented**
>   13.1101: **Counselor Education/Counseling and Guidance Services**
>   13.1399: **Teacher Education, Specialized Academic and**
>   **Vocational Programs, Other**
>   13.9999: **Education, Other**

618. Fine and Applied Arts Programmes

U.S. postsecondary programs at this level in the visual and performing arts consist of both academic and professionally oriented offerings. The instructional activity takes place in colleges and universities as well as independent schools (academies, conservatories) specializing in one or more of the arts.

61801. General Programmes of Art Studies. Programs of this type as defined in ISCED are either survey and appreciation programs or professionally oriented programs that are not differentiated by medium or discipline, primarily in the visual and applied arts. This program group code corresponds to:

> Bac   50.0401: **Design and Visual Communications**
>   50.0701: **Art, General**
>   50.0702: **Fine/Studio Arts**

61802. Programmes in the History and Philosophy of Art. This program group code should be inserted at level 6 (it appears only at level 7) to report data accurately on U.S. bachelor's programs in art history and conservation. It corresponds to:

> Bac   50.0703: **Art History, Criticism, and Conservation**

61804. Programmes in Drawing and Painting. According to the ISCED definition, this program group code encompasses data collected on printmaking programs as well as traditional drawing and painting programs. Corresponding U.S. program data codes include:

> Bac   50.0705: **Drawing**
>   50.0708: **Painting**

50.0710: Printmaking

61808. Programmes in Sculpturing. This program group code corresponds to U.S. data reported for the following program:

> Bac 50.0709: Sculpture

61812. Programmes in Handicrafts. This program group code must be inserted at level 6 (it appears only at level 5) to report data accurately on U.S. bachelor's degree programs in the folk arts and crafts. These artistic disciplines are frequently taught in U.S. fine arts programs and are regarded as legitimate subjects of advanced study as part of the national cultural heritage. ISCED code 61812 includes:

> Bac 50.0201: **Crafts, Folk Art, and Artisanry**
> 50.0711: **Ceramic Arts and Ceramics**
> 50.0712: **Fiber, Textile, and Weaving Arts**
> 50.0713: **Metal and Jewelry Arts**

61822. Programmes in Music. This program group code corresponds to U.S. data reported for general programs in music (including surveys and appreciation), programs in music scholarship and research, and programs that prepare musical performing artists and managers. It includes:

> Bac 50.0901: **Music, General**
> 50.0902: **Music History and Literature**
> 50.0903: **Music—General Performance**
> 50.0904: **Music Theory and Composition**
> 50.0905: *Musicology and Ethnomusicology*
> 50.0906: *Music Conducting*
> 50.0907: **Music—Piano and Organ Performance**
> 50.0907: *Music—Voice and Choral/Opera Performance*
> 50.0909: **Music Business Management and Merchandising**
> 50.0999: **Music, Other**

61832. Programmes in the Drama. This program group code corresponds to data reported on U.S. bachelor's degree programs in drama studies and appreciation as well as programs preparing performing artists, writers, and theatre production personnel:

> Bac 50.0501: **Drama/Theatre Arts, General**
> 50.0502: **Technical Theatre/Theatre Design and Stagecraft**
> 50.0503: *Acting and Directing*

61842. Programmes in Photography and Cinematography. This program group code should be inserted at level 6 (it appears at level 5) in order to report data accurately on U.S. bachelor's degree programs in photography and film. Such programs prepare professional photographers and movie industry personnel and serve as the basis for further academic study and research. ISCED code 61842 includes:

Bac   10.0103: Photographic Technology/Technician
         50.0406: Commercial Photography
         50.0601: Film/Cinema Studies
         50.0602: Film-Video Making/Cinematography and Production
         50.0605: Photography
         50.0699: Film/Video and Photographic Arts, Other

61852. Programmes in Interior Design. This program group code corresponds to U.S. bachelor's degree data reported for the following program code:

Bac   50.0408: Interior Design

61899. Other Fine and Applied Arts Programmes. This program group code corresponds to U.S. data reported for a variety of arts programs which do not correspond to any other ISCED program group code at this level:

Bac   50.0101: Visual and Performing Arts
         50.0301: Dance
         50.0402: Graphic Design, Commercial Art and Illustration
         50.0404: Industrial Design
         50.0407: Fashion Design and Illustration
         50.0499: Design and Applied Arts, Other
         50.0704: Arts Management
         50.0706: Intermedia
         50.0799: Fine Arts and Art Studies, Other
         50.9999: Visual and Performing Arts, Other

622. Humanities Programs

U.S. humanities programs at the bachelor's degree level usually provide a focused introduction to the study of the field of concentration designed to provide either a terminal academic experience or the groundwork for further study and research. The generalized character of U.S. undergraduate liberal arts programs is useful for both aims, for it permits

the humanities major to augment the introduction to the major field with other appropriate studies. Examples of such undergraduate combinations could include such subjects as business or pre-law (for someone planning to enter a professional program); science or engineering (for someone planning to combine technical expertise with scholarly research); or foreign languages and the social sciences (for someone preparing to enter graduate school in a humanties discipline).

While this crosswalk follows ISCED practice, it should be noted that in the U.S. religious studies and art studies programs (art history, music history, drama studies, film studies, general visual/performing arts studies) are considered to be humanities subjects and their program data would be reported domestically in this category.

62201. General Programmes in the Humanities. This program group code corresponds to U.S. data reported for the following program, which represents the interdisciplinary or individually designed study of the humanities:

> **Bac   24.0103: Humanities/Humanistic Studies**

62202. Programmes for Interpreters and Translators. This program group code corresponds to U.S. data reported for the following program code, which covers programs preparing translators and interpreters:

> **Bac**   *16.0103: Foreign Language Interpretation and Translation*

62208. Other Programmes in Languages, Except the Current or Vernacular Language. This program group code should be inserted at level 6 (it appears only at level 5) to report data consistently on U.S. programs in foreign languages in which the specific language studied is not identified by name. The code corresponding to this concept are:

> **Bac   16.0101: Foreign Languages and Literatures, General**

62211. Programs in the Current or Vernacular Language and Its Literature. This program group code corresponds, in U.S. terms, to data reported for various bachelor's degree programs in English. It includes:

> **Bac   23.0101: English Language and Literature, General**
> **23.0401: English Composition**
> **23.0501: English Creative Writing**
> **23.0701: American Literature (United States)**
> **23.0801: English Literarure (British and Commonwealth)**
> **23.1001: Speech and Rhetorical Studies**

62241. Programmes in Comparative Literature. This program group code corresponds to U.S. data reported for the following program:

Bac   23.0301: Comparative Literature

62251. Programmes in History. This program group code corresponds to U.S. data reported for bachelor's degree programs in history and related fields. It includes:

Bac   45.0801: History, General
       45.0802: American (United States) History
       45.0804: History and Philosophy of Science and Technology
       45.0899: History, Other

62261. Programmes in Archaeology. This program group code corresponds to U.S. data reported for the following program:

Bac   45.0301: Archaeology

62271. Programmes in Philosophy. This program group code corresponds to U.S. data reported for the following program:

Bac   38.0101: Philosophy

62299. Other Humanities Programs. This program group code corresponds to U.S. data reported for a variety of humanities programs which do not correspond to any other ISCED program group code at this level:

Bac   05.0205: Jewish/Judaic Studies
       30.1301: Medieval and Renaissance Studies

626. Religion and Theology Programmes

Programs in religion studies and the theological vocations are reported separately inside the United States, but are combined here following ISCED practice. In public colleges and universities religious studies programs are academic in nature and are normally classified as part of the humanities. This is the case as well in private institutions, which also may offer direct preparation for religious vocations. Religion programs in both public and private institutions also prepare students for further study, either graduate-level academic studies or professional theological training. Most of the larger faith communities inside the United

23.1101: English Technical and Business Writing
23.9999: English Language and Literature/Letters, Other

62215. Programmes in Other Living Languages and Their Literature. This program group code corresponds to data reported for U.S. programs in modern foreign languages at the bachelor's degree level. Foreign language programs at this level are designed to introduce students to a language and its literature, to build competency, and to prepare interested students for further study. It includes:

Bac
16.0301: Chinese Language and Literature
16.0302: Japanese Language and Literature
16.0399: East and Southeast Asian Languages and Literatures, Other
16.0402: Russian Language and Literature
16.0403: Slavic Languages and Literatures (Other Than Russian)
16.0499: East European Languages and Literatures, Other
16.0501: German Language and Literature
16.0502: Scandinavian Languages and Literatures
16.0599: Germanic Languages and Literatures, Other
16.0602: Greek Language and Literature (Modern)
16.0703: South Asian Languages and Literatures
16.0901: French Language and Literature
16.0902: Italian Language and Literature
16.0904: Portuguese Language and Literature
16.0905: Spanish Language and Literature
16.0999: Romance Languages and Literatures, Other
16.1101: Arabic Language and Literature
16.1102: Hebrew Language and Literature
16.1199: Middle Eastern Languages and Literatures, Other
16.9999: Foreign Languages and Literatures, Other

62221. Programmes in "Dead" Languages and Their Literatures. This program group code corresponds to data reported for U.S. programs in classics and ancient languages at the bachelor's degree level. Such programs, at the bachelor's degree level, are designed to introduce students to the language , its literature, and its historical/cultural context. Students are prepared for further study if they so choose. It includes:

Bac
16.1201: Classics and Classical Languages and Literatures
16.1202: Greek Language and Literature (Ancient and Medieval)
16.1203: Latin Language and Literature (Ancient and Medieval)
16.1299: Classical and Ancient Near Eastern Languages and Literatures, Other

45.0603: Econometrics and Quantitative Economics
45.0605: International Economics
45.0699: Economics, Other

63022. Programs in Political Science. This program group code, as defined in ISCED, corresponds to data reported on bachelor's degree programs in international relations and political science. It includes:

Bac **45.0901: International Relations and Affairs**
45.1001: Political Science, General
45.1099: Political Science and Government, Other

63032. Programmes in Sociology. This program group code corresponds to data reported on bachelor's degree programs in sociology. It includes:

Bac **45.1101: Sociology**

63042. Anthropology Programmes. This program group code corresponds to data reported on bachelor's degree programs in anthropology. It includes:

Bac **45.0201: Anthropology**

63052. Programmes in Psychology. Psychology programs at the bachelor's level serve as terminal programs for students entering other fields where a knowledge of psychology is useful (such as medicine, theology, business, and education) and as foundations for further study in psychology itself. Licensure as a clinical practitioner and qualification as a researcher generally requires at least a master's degree in the appropriate subfield of the discipline. This program group code corresponds to:

Bac **42.0101: Psychology, General**
42.0201: Clinical Psychology
42.0301: Cognitive Psychology and Psycholinguistics
42.0401: Community Psychology
42.0601: Counseling Psychology
42.0701: Developmental and Child Psychology
42.0801: Experimental Psychology
42.0901: Industrial and Organizational Psychology
42.1101: Physiological Psychology/Psychobiology
42.1601: Social Psychology
42.9999: Psychology, Other

States (Baptist, Episcopalian, Jewish, Lutheran, Methodist, Presbyterian, Roman Catholic) require a first-professional or graduate degree prior to ordination. Bachelor's degree programs, as a consequence, tend to be general and preparatory rather than terminal.[27]

62600. Religion and Theology Programmes. This program group code corresponds to data collected on sub-bachelor's degree religious studies programs and on programs preparing students for a variety of religious vocations:

Bac   **38.0201: Religion/Religious Studies**
        39.0101: Biblical and Other Theological Languages and Literatures
        39.0201: Bible/Biblical Studies
        39.0301: Missions/Missionary Studies and Missiology
        39.0401: Religious Education
        39.0501: Religious/Sacred Music
        39.0601: Theology/Theological Studies
        39.0603: Rabbinical and Talmudic Studies (MHL/Rav)
        39.0604: Pre-Theological/Pre-Ministerial Studies
        39.0699: Theological and Ministerial Studies, Other
        39.0701: Pastoral Counseling and Specialized Ministries
        39.9999: Theological Studies and Religious Vocations, Other

630. Social and Behavioural Science Programmes

The observations made about humanities programs at the U.S. equivalent of ISCED level 6 (see broad field 622, above) also apply to social sciences programs.

63001. General Programmes in the Social and Behavioural Sciences. This program group code corresponds to U.S. data reported for the following code, representing social sciences programs which are interdisciplinary or not identified by field:

Bac   **45.0101: Social Sciences, General**

63012. Programmes in Economics. This program group code corresponds to U.S. data reported for bachelor's degree programs in economics. It includes:

Bac   **45.0601: Economics, General**
        45.0602: Applied and Resource Economics

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[27] See the corresponding note under ISCED broad field 526 in chapter 7.

63062. Geography Programmes. This program group code corresponds to data reported on bachelor's degree programs in geography and cartography. It includes:

Bac   45.0701: Geography
       45.0702: Cartography

63072. Studies of Regional Cultures. This program group code corresponds to U.S. data reported for bachelor's degree programs in area studies. A typical undergraduate concentration in area studies consists of coursework from different disciplines focusing on a specific region but usually includes a core discipline (geography, economics, etc.) which serves as the conceptual/methodological framework. The better programs also include foreign language study, generally of a *lingua franca* in the region studied. ISCED code 63072 includes:

Bac   05.0101: African Studies
       05.0102: American Studies/Civilization
       05.0103: Asian Studies
       05.0104: East Asian Studies
       05.0105: Eastern European Area Studies
       05.0106: European Studies
       05.0107: Latin American Studies
       05.0108: Middle Eastern Studies
       05.0110: Russian and Slavic Area Studies
       05.0111: Scandinavian Area Studies
       05.0112: South Asian Studies
       05.0113: Southeast Asian Studies
       05.0114: Western European Studies
       05.0115: Canadian Studies
       05.0199: Area Studies, Other

63099. Other Programmes in Social and Behavioural Science. U.S. institutions offer other focused study programs similar to area studies but dealing with minority group issues, urban issues, and issues pertaining to women. Like area studies, these fields constitute interdisciplinary approaches to the subjects they address, and may be terminal programs or prepare students to continue such studies at the graduate level. ISCED code 53099 corresponds to:

Bac   05.0201: Afro-American (Black) Studies
       05.0202: American Indian/Native American Studies
       05.0203: Hispanic-American Studies
       05.0207: Women's Studies
       05.0299: Ethnic and Cultural Studies, Other
       05.9999: Area, Ethnic, and Cultural Studies, Other

45.0501: Demography/Population Studies
45.1201: Urban Affairs/Studies
45.9999: Social Sciences and History, Other

634. Business Administration and Related Programmes

This ISCED broad field is the appropriate place to report data on U.S. bachelor's degree programs in business-related fields as well (as defined in ISCED) as public administration and administrative services related to schools, health care, and non-profit organizations. Some marketing operations program data (CIP Series 08.) are also reported here, specifically those data relating to general retailing and wholesaling services. Bachelor's degree business programs prepare students for immediate job entry or for further study. In many cases the programs are similar in content to longer business programs at the less-than-4-year level (level 5), with the addition of the general education requirements characteristic of U.S. bachelor's degrees. Business programs thus share with health care programs (see broad fields 550 and 650) the tendency to be offered at both degree levels, with the distinction being that the bachelor's degree programs represent completion of a full undergraduate course of studies. Students earning bachelor's degrees in business outnumber those earning bachelor's degrees in any other subject field.[28]

U.S. bachelor's degrees in the medical records fields follow the pattern discussed above for business degrees; they are longer counterparts of the corresponding associate's degree programs. Bachelor's degrees in the health and education administration fields, and in public administration, do not represent terminal qualifications. Professional administrators and researchers in these fields usually possess graduate-level degrees.

63401. General Programmes in Business Administration (Commerce). General business programs at this level provide either an introduction to business administration or constitute business programs which do not have titles indicating a specialty. This program group code corresponds to:

> Bac 52.0101: Business, General
> 52.0201: Business Administration and Management, General

63404. Secretarial Programmes. This program group code should be inserted at level 6 (it appears at levels 3 and 5) in order to report data consistently for U.S. programs in secretarial and executive assistant services at the bachelor's degree level. These programs at

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[28] See various editions of the *Digest of Education Statistics* (Washington: U.S. Government Printing Office, annual), the yearly summary of national education data produced by the National Center for Education Statistics. IPEDS data tapes furnished to various domestic and international users also indicate the pattern of degree completions by CIP code for each reporting year.

level 6 combine the office and business skills training also attained at the associate degree level (level 5) with the general education program required for a bachelor's degree. This program group code corresponds to:

Bac 52.0401: **Administrative Assistant/Secretarial Science, General**
52.0402: **Executive Assistant/Secretary**
52.0403: Legal Administrative Assistant/Secretary
52.0404: Medical Administrative Assistant/Secretary
52.0405: **Court Reporter**
52.0499: Administrative and Secretarial Services, Other

63408. Clerical-Typists Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately on U.S. programs in office support skills which use the code title listed below. At the bachelor's degree level these programs are not basic clerical training but rather office assistant programs similar to secretarial offerings listed under 63404. ISCED code 63408 includes:

Bac 52.0408: **General Office/Clerical and Typing Services**

63426. Programmes in Electronic Data Processing. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately on U.S. programs in business data processing and management information systems. This program group code, as defined in ISCED, corresponds to:

Bac 52.1201: **Management Information Systems and Business Data Processing, General**
52.1202: **Business Computer Programming/Programmer**
52.1203: **Business Systems Analysis and Design**

63432. Accountancy Programmes. This program group code corresponds to U.S. data reported for bachelor's degree programs in accounting and related fields. It includes:

Bac 52.0301: **Accounting**
52.0302: **Accounting Technician**

63434. Business Administration, Marketing and Sales Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data consistently for U.S. programs in business marketing and related fields. ISCED code 63434 includes:

Bac *08.0701: Auctioneering*
08.0704: General Buying Operations

08.0705: General Retailing Operations
08.0706: General Selling Skills and Sales Operations
08.0708: General Marketing Operations
08.0799: General Retailing and Wholesaling Operations
and Skills, Other
09.0201: Advertising
52.1401: Business Marketing and Marketing Management, General
52.1402: Marketing Research
52.1403: International Business Marketing
52.1499: Marketing Management and Research, Other

63436. Programmes in Financial Management and Investment Analysis. This program group code should be inserted at level 6 (it appears only at level 5) to report data consistently for U.S. programs in business finance and related fields. ISCED code 63436 includes:

Bac 52.0801: Finance, General
52.0803: Banking and Financial Support Services
52.0804: Financial Planning
52.0805: Insurance and Risk Management
52.0805: International Finance
52.0807: Investments and Securities
52.0899: Financial Management and Services, Other

63439. Programmes in Business Administration with Other Specialization. A great many business administration specialties are not assigned separate categories in ISCED. Data reported on these programs needs to be assigned to the "other" program group. This program group code, as defined in ISCED, corresponds to:

Bac 08.0301: Entrepreneurship
52.0202: Purchasing, Procurement and Contracts Management
52.0203: Logistics and Materials Management
52.0204: Office Supervision and Management
52.0205: Operations Management and Supervision
52.0299: Business Administration and Management, Other
52.0601: Business/Managerial Economics
52.0701: Enterprise Management and Operation, General
52.0901: Hospitality Administration/Management
52.0902: Hotel/Motel and Restaurant Management
52.0903: Travel and Tourism Management
52.0901: Hospitality Services Management, Other
52.1001: Human Resources Management
52.1002: Labor/Personnel Relations and Studies
52.1101: International Business

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> 52.1301: Management Science
> 52.1301: Business Quantitative Methods and Management
> Science, Other
> 52.1501: Real Estate
> 52.9999: Business Management and Administrative Services,
> Other

63452. Programmes in Public Administration. This program group code as defined in ISCED corresponds to data reported for U.S. programs in public administration, which prepare students both for public service careers and for the advanced study of government operations. Public sector workers and managers do not need to specialize in public administration and usually do not. (They are usually educated in a field related to what they are hired to do, such as law, accounting, management, health care, etc.) Public administration is often treated as a branch of political science and programs in it are frequently offered by faculty in the latter discipline. ISCED code 63452 includes:

> Bac 44.0401: Public Administration
> 44.0501: Public Policy Analysis
> 44.9999: Public Administration and Services, Other

63462. Programmes in Institutional Administration. This program group code does not correspond to the way that U.S. programs in education, health care, and nonprofit organization administration are treated. In U.S. data reporting, programs in the administration of these activities are included under the subject categories rather than as a separate heading under business administration. The administrative programs cited in the definition of this program group are reported here in order to accomodate the ISCED system. ISCED code 63462 includes:

> Bac 13.0401: Education Administration and Supervision, General
> *13.0402: Administration of Special Education*
> *13.0406: Higher Education Administration*
> *13.0499: Education Administration and Supervision, Other*
> 51.0701: Health System/Health Services Administration
> 51.0702: Hospital/Health Facilities Administration
> 51.0706: Medical Records Administration
> *51.0707: Medical Records Technology/Technician*
> 51.0799: Health and Medical Administrative Services, Other
> *52.0206: Non-Profit and Public Management*

638. Law and Jurisprudence Programmes

ISCED defines this broad field as pertaining to the training of attorneys and *notaires*. The

former are trained in graduate-level law schools in the United States, while the latter do not exist in the U.S. legal system. (The concept of a notary exists, but is a comparatively low-level function which requires no specific academic training. It is a job often fulfilled by specially licensed legal secretaries in law offices.) U.S. programs in law at the bachelor's degree level consist of preparatory programs for students planning to enter law school, as well as programs for legal assistants.

63801. General Programmes in Law. Professional legal education programs in the United States are first-professional programs occuring after the bachelor's degree or its equivalent is earned. At the bachelor's degree level the following related programs are reported:

> Bac   **22.0102: Pre-Law Studies**
>   **22.0103: Paralegal/Legal Assistant**

63812. Programmes for "Notaires." No U.S. program data corresponding to this program group code exist.

63899. Other Law and Jurisprudence Programmes. This program group code should be inserted at level 6 (it appears only at level 7) to report data accurately on U.S. bachelor's degree programs in legal studies which are not elsewhere classified. It corresponds to:

> Bac   **22.0199: Law and Legal Studies, Other**

642. Natural Science Programmes

This ISCED broad field describes both biological and physical sciences programs at the bachelor's degree level. Bachelor's degrees in the sciences prepare students for advanced study in the same or a related field or for entry into a first professional degree program such as medicine.

64202. Biological Science Programmes. This program group code as defined in ISCED corresponds to data reported on the entire range of biological science programs, which is an extensive and growing list. ISCED code 64202 includes:

> Bac   **26.0101: Biology, General**
>   **26.0202: Biochemistry**
>   *26.0203: Biophysics*
>   **26.0301: Botany, General**
>   *26.0305: Plant Pathology*
>   *26.0399: Botany, Other*
>   **26.0401: Cell Biology**

26.0402: **Molecular Biology**
26.0499: **Cell and Molecular Biology, Other**
26.0501: **Microbiology/Bacteriology**
26.0601: **Anatomy**
26.0603: **Ecology**
26.0607: **Marine/Aquatic Biology**
26.0608: **Neuroscience**
26.0609: **Nutritional Sciences**
26.0612: **Toxicology**
26.0613: **Genetics, Plant and Animal**
26.0614: **Biometrics**
26.0615: *Biostatistics*
26.0616: *Biotechnology Research*
26.0699: **Miscellaneous Biological Specializations, Other**
26.0701: **Zoology, General**
26.0702: **Entomology**
26.0704: *Pathology, Human and Animal*
26.0705: *Pharmacology, Human and Animal*
26.0706: **Physiology, Human and Animal**
26.9999: **Biological Sciences/Life Sciences, Other**

64212. Chemistry Programmes. This program group code corresponds to U.S. data reported for the following undergraduate programs in chemistry:

Bac   40.0501: **Chemistry, General**
     40.0504: *Organic Chemistry*
     40.0505: *Medicinal/Pharmaceutical Chemistry*
     40.0506: **Physical and Theoretical Chemistry**
     40.0599: **Chemistry, Other**

64222. Geological Science Programmes. This program group code corresponds to U.S. data reported for the following undergraduate programs in geology and related sciences:

Bac   40.0601: **Geology**
     40.0602: *Geochemistry*
     40.0603: **Geophysics and Seismology**
     40.0604: *Paleontology*
     40.0699: **Geological and Related Sciences, Other**

64232. Physics Programmes. This program group code corresponds to U.S. data reported for the following undergraduate programs in physics:

Bac   **40.0801: Physics, General**
40.0802: Chemical and Atomic/Molecular Physics
40.0807: Optics
40.0899: Physics, Other

64242. Astronomy Programmes. This program group code corresponds to U.S. data reported for the following undergraduate programs in astronomy and astrophysics:

Bac   **40.0201: Astronomy**
40.0301: Astrophysics

64252. Meteorology Programmes. This program group code corresponds to U.S. data reported for the following undergraduate program in atmospheric sciences and meteorology:

Bac   **40.0401: Atmospheric Sciences and Meteorology**

64262. Oceanography Programmes. This program group code corresponds to U.S. data reported for the following undergraduate program in oceanography:

Bac   **40.0702: Oceanography**

64299. Other Natural Science Programmes. General programs in the physical sciences which emphasize no specific discipline, as well as multidisciplinary programs and a few specific programs in other science fields are offered at this level in the United States. This program group code as defined in ISCED corresponds to:

Bac   **30.0101: Biological and Physical Sciences**
30.0601: Systems Science and Theory
40.0101: Physical Sciences, General
40.0701: Metallurgy
40.0703: Earth and Planetary Sciences
40.0799: Miscellaneous Physical Sciences, Other
40.9999: Physical Sciences, Other

646. Mathematics and Computer Science Programmes

Data on both of these program Series are combined in this ISCED broad field, although they are reported separately within the United States. Bachelor's degrees in both the mathematical and computer fields may lead to immediate employment or further study in the same or related fields.

64601. General Programmes in Mathematics. This program group code corresponds to U.S. data reported for the following undergraduate programs in mathematics:

    Bac   27.0101: Mathematics

64611. Programmes in Statistics. This program group code corresponds to U.S. data reported for the following undergraduate programs in statistics:

    Bac   27.0501: Mathematical Statistics

64621. Programmes in Actuarial Science. Actuarial science programs are classified as a business application in the United States, since the field primarily prepares technical experts employed in the insurance and risk assessment industries. This program group code corresponds to U.S. data reported for the following undergraduate program in actuarial science:

    Bac   52.0802: Actuarial Science

64639. Other Programmes in Mathematics. Other mathematics programs for which undergraduate data are reported in the United States include:

    Bac   27.0301: Applied Mathematics, General
                27.0302: Operations Research
                27.9999: Mathematics, Other
                30.0801: Mathematics and Computer Science

64641. Programmes in Computer Science. This program group code corresponds to U.S. data reported for the following undergraduate programs in computer and information sciences and general applications:

    Bac   11.0101: Computer and Information Sciences, General
                11.0201: Computer Programming
                11.0301: Data Processing Technology/Technician
                11.0401: Information Sciences and Systems
                11.0501: Computer Systems Analysis
                11.0701: Computer Science
                11.9999: Computer and Information Sciences, Other

650. Medical Diagnostic and Treatment Programmes

The following listing corresponds to those U.S. program codes in these categories for which data at this level are reported. As with business (see broad fields 534 and 634), there is a tendency for many allied health fields to be offered at both the bachelor's and associate's degree levels. The increased reliance on high-tech equipment and an increased reliance on allied health professionals and nurses instead of physicians in primary care situations has resulted in a gradual increase in the level of education required for licensure in these occupational fields. Many health care programs are now offered, and completed, at all three ISCED postsecondary levels (5, 6, and 7).

65002. Programmes in Hygiene. This program group code is the appropriate location for reporting data for U.S. bachelor's degree programs in public health and related fields. Undergraduate professional degrees in public health frequently require 5 years of study; master's degrees are even more common as the basic professional credential. ISCED code 65002 corresponds to:

Bac 51.0301: Community Health Liason
51.2201: Public Health, General
51.2202: Environmental Health
51.2205: Health Physics/Radiologic Health
51.2206: Occupational Health and Industrial Hygiene
51.2207: Public Health Education and Promotion
51.2299: Public Health, Other

65006. Programmes in Medicine and Surgery. Professional medical education programs in the United States are first-professional programs occuring after the bachelor's degree or its equivalent is earned. At the bachelor's degree level the following related programs are reported:

Bac 51.0807: Physician Assistant
51.1102: Pre-Medicine Studies

65008. Rehabilitation Medicine Programmes. This program group code is interpreted to include all therapeutic and rehabilitation programs (despite its title), as they form a coherent group of related fields and there is no other appropriate place to report them together in ISCED. Therapeutic and rehabilitation programs at Level 6 are bachelor's degrees in allied health fields leading to entry-level jobs or further study. As defined, ISCED code 55008 corresponds to:

Bac 51.2301: Art Therapy
51.2302: Dance Therapy

51.2303: Music Therapy
51.2306: Occupational Therapy
51.2307: Orthotics/Prosthetics
51.2308: Physical Therapy
51.2309: Recreational Therapy
51.2310: Vocational Rehabilitation Counseling
51.2399: Rehabilitation/Therapeutic Services, Other

65012. Programmes in Nursing. U.S. nursing programs at the bachelor's degree level parallel those offered at the less-than-4-year level: programs training registered nurses (fully licensed professional practitioners); and programs training practical nurses (general care workers with limited licenses). The professional curricula for both levels is the same, but the ancillary general liberal arts subjects are only required at the bachelor's level. An ongoing debate exists as to which approach is better. Programs are also offered in various nursing specialities. ISCED code 65012 corresponds to:

Bac   **51.1601: Nursing (R.N. Training)**
         51.1602: Nursing Administration
         51.1603: Nursing, Adult Health
         51.1604: Nursing Anesthetist
         51.1608: Nursing Science
         51.1611: Nursing, Public Health
         51.1612: Nursing, Surgical
         51.1613: Practical Nurse (L.P.N. Training)
         51.1699: Nursing, Other

65015. Midwifery Programmes. In the United States, specifically designated midwifery programs are a subspecialty of the nursing profession and lead to the award of a bachelor's or higher degree. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately on the few such program completions currently reported. (At present, these data are are insignificant and at the PBC level only for CIP code 51.1607: Nursing Midwifery.)

65017. Programmes in Medical X-Ray Techniques. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately on U.S. bachelor's degree programs in radiologic technology. It includes:

Bac   **51.0907: Medical Radiologic Technology/Technician**

65019. Other Programmes in Medical Diagnostic and Treatment Techniques Except Dental Techniques. This program group code should be inserted at level 6 (it appears only

at level 5) to report data accurately on U.S. bachelor's degree programs in medical diagnostic and treatment services other than radiologic technology (see 65017, above). It includes:

Bac 51.0901: Cardiovascular Technology/Technician
51.0903: Electroencephalograph Technology/Technician
51.0904: Emergency Medical Technology/Technician
51.0905: Nuclear Medical Technology/Technician
51.0908: Respiratory Therapy Technician
51.0910: Diagnostic Medical Sonography Technician
51.0999: Health and Medical Diagnostic and Treatment Services, Other

65030. Medical Technology Programmes. This program group code corresponds to U.S. data reported for undergraduate programs in medical technology and related laboratory specialties. It includes:

Bac 51.1001: Blood Bank Technology/Technician
51.1002: Cytotechnologist
51.1004: Medical Laboratory Technician
51.1005: Medical Technology
51.1099: Health and Medical Laboratory Technologies/ Technicians, Other

65042. Programmes in Dentistry, Stomatology, Odontology. Professional medical education programs in the United States occur after the bachelor's degree or its equivalent is earned. At the bachelor's degree level, the following related program is reported:

Bac 51.1101: Pre-Dentistry Studies

65046. Other Programmes in Dental Techniques. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately on U.S. bachelor's degree programs in dental services. It includes:

Bac 51.0602: Dental Hygienist
51.0603: Dental Laboratory Technician

65052. Programmes in Pharmacy. U.S. professional bachelor of pharmacy programs are 5- or 6-year programs; they are currently being phased out and replaced by a first-professional doctor of pharmacy program which requires prior possession of a bachelor's degree. Pharmacy programs at this level include:

Bac *51.1103: Pre-Pharmacy Studies*
51.2003: Medical Pharmacology and Pharmaceutical Sciences
51.2099: Pharmacy, Other

65062. Optometry Programmes. Optometry is a graduate-level professional program in the United States which requires a bachelor's degree or the equivalent for entry. At the bachelor's level, data are reported for the following related program code:

Bac   51.1899: Ophthalmic/Optometric Services, Other

65099. Other Medical Diagnostic and Treatment Programmes. A large number of U.S. health professions programs cannot be reported separately because there are no corresponding program group codes assigned in ISCED. They include:

Bac   51.0201: Communication Disorders, General
51.0202: Audiology/Hearing Sciences
51.0203: Speech-Language Pathology
51.0204: Speech-Language Pathology and Audiology
51.0205: Sign Language Interpreter
51.0299: Communication Disorders Sciences and Services, Other
51.0704: Health Unit Manager/Ward Supervisor
51.0801: Medical Assistant
51.1199: Health and Medical Preparatory Programs, Other
51.1302: Medical Biochemistry
51.1304: Medical Physics/Biophysics
51.1305: Medical Cell Biology
51.1308: Medical Microbiology
51.1313: Medical Physiology
51.1399: Basic Medical Sciences, Other
51.1501: Alcohol/Drug Abuse Counseling
51.1502: Psychiatric/Mental Health Services Technician
51.1503: Clinical and Medical Social Work
51.1599: Mental Health Services, Other
51.2701: Acupuncture and Oriental Medicine
51.2703: Medical Illustrating
51.2705: Psychoanalysis
51.9999: Health Professions and Related Sciences, Other

652. Trade, Craft and Industrial Programmes, n.e.c.

This ISCED broad field should be inserted in order to report data accurately and consistently for U.S. programs classified under it which are offered at the bachelor's degree level. Such

programs are not vocational at this level but rather prepare managers, supervisors, and technologists.

65212. Food Processing Trades Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. bachelor's degree programs preparing food processing industry managers. It corresponds to:

> **Bac** *01.0401: Agricultural and Food Products Processing Operations and Management*
> .

65216. Building Trades Programmes, n.e.c. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for U.S. building and construction programs. It corresponds to:

> **Bac** *46.0201: Carpenter*
> *46.0302: Electrician*
> *46.0401: Building/Property Maintenance and Manager*
> *46.0403: Construction/Building Inspector*
> **46.0499: Construction and Building Finishers and Managers, Other**
> *46.9999: Construction Trades, Other*

65222. Electrical and Electronics Trades Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. electrical facilities intallation programs. It corresponds to:

> **Bac** *47.0101: Electrical and Electronics Equipment Installer and Repairer, General*
> *47.0103: Communications Systems Installer and Repairer*
> *47.0105: Industrial Electronics Installer and Repairer*
> *47.0199: Electrical and Electronics Equipment Installer and Repairer, Other*

65232. Metal Trades Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. programs in precision metalwork technology. It corresponds to:

> **Bac** *48.0507: Tool and Die Maker/Technologist*

65242. Mechanical and Mechanical Repair Trades Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. programs in industrial maintenance technology. It corresponds to:

Bac 47.0303: *Industrial Machinery Maintenance and Repairer*
47.0604: *Auto/Automotive Mechanic/Technician*
47.0605: *Diesel Engine Mechanic and Repairer*
47.0607: *Aircraft Mechanic/Technician, Airframe*
47.0608: *Aircraft Mechanic/Technician, Powerplant*
47.0699: *Vehicle and Mobile Equipment Mechanics and Repairers, Other*
47.9999: *Mechanics and Repairers, Other*

65262. Woodworking Trades Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for U.S. programs in industrial wood technology other than forestry (see broad field 654). It corresponds to:

Bac 48.0701: *Woodworkers, General*

65276. Clothing and Related Trades Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for U.S. programs in garment and fabric industry management and technology. It corresponds to:

Bac 20.0301: *Clothing, Apparel, and Textile Workers and Managers, General*
20.0303: *Commercial Garment and Apparel Worker*
20.0399: *Clothing, Apparel, and Textile Workers and Managers, Other*

65278. Graphic Arts Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. programs in printing industry management and technology. It corresponds to:

Bac **48.0201: Graphic and Printing Equipment Operator, General**
48.0211: *Computer Typography and Composition Equipment Operator*
48.0299: Graphic and Printing Equipment Operators, Other

65284. Laboratory Technology Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for

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U.S. programs in scientific technology. It corresponds to:

> Bac **41.0101: Biological Technology/Technician**
> **41.0301: Chemical Technology/Technician**
> *41.0399: Physical Science Technologies/Technicians, Other*
> **41.9999: Science Technologies/Technicians, Other**

65299. Other Trade, Craft and Industrial Programmes, n.e.c. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. programs in production technologies not elsewhere classified. It corresponds to:

> Bac *48.9999: Precision Production Trades, Other*

654. Engineering Programmes

Both engineering and engineering technology programs are offered at the bachelor's degree level in the United States. Many engineering programs have increased their content requirements and now require 5 academic years to complete. Likewise, many engineering technology programs have increased their content requirements and are now offered at the bachelor's degree level as well as at the less-than-4-year level. Both types of program prepare students for immediate job entry or for further study.

65402. Programmes in Surveying. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. programs in surveying. It corresponds to:

> Bac **15.1102: Surveying**

65406. Programmes in Drafting and Design. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. programs in drafting and design. It corresponds to:

> Bac *14.2901: Engineering Design*
> **48.0101: Drafting, General**
> *48.0104: Electrical/Electronics Drafting*
> *48.0105: Mechanical Drafting*
> *48.0199: Drafting, Other*

65412. Chemical Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in chemical engineering and related fields. It includes:

Bac 14.0601: Ceramic Sciences and Engineering
14.0701: Chemical Engineering
14.3201: Polymer/Plastics Engineering
15.0607: Plastics Technology/Technician

65416. Civil Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in civil engineering and related fields. It includes:

Bac 14.0801: Civil Engineering, General
14.0802: Geotechnical Engineering
14.0804: Transportation and Highway Engineering
14.0899: Civil Engineering, Other
14.2401: Ocean Engineering
15.0201: Civil Engineering/Civil Technology/Technician
15.1001: Construction/Building Technology/Technician

65422. Electrical and Electronics Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in electrical and electronics engineering and related fields. It includes:

Bac 14.0901: Computer Engineering
14.1001: Electrical, Electronics and Communications
Engineering
15.0301: Computer Engineering Technology/Technician
15.0303: Electrical, Electronic and Communications Engineering
Technology/Technician
15.0399: Electrical and Electronic Engineering-Related
Technologies/Technicians, Other
15.0402: Computer Maintenance Technology/Technician
15.0403: Electromechanical Technology/Technician
15.0404: Instrumentation Technology/Technician
15.0405: Robotics Technology/Technician
*15.0499: Electromechanical Instrumentation and Maintenance
Technologies/Technicians, Other*

65426. Industrial Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in industrial

engineering and related fields. It includes:

    Bac   **14.1701: Industrial/Manufacturing Engineering**
            14.3001: Engineering/Industrial Management
            15.0603: Industrial/Manufacturing Technology/Technician
            **15.0699: Industrial Production Technologies/Technicians,
                Other**
            15.0701: Occupational Safety and Health Technology/Technician
            15.0702: Quality Control Technology/Technician
            *15.0799: Quality Control and Safety Technologies/Technicians,
                Other*

65432. Metallurgical Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in metallurgical engineering and related fields. It includes:

    Bac   **14.2001: Metallurgical Engineering**
            15.0611: Metallurgical Technology/Technician

65436. Mining Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in mining engineering and related fields. It includes:

    Bac   **14.1501: Geological Engineering**
            14.2101: Mining and Mineral Engineering
            15.0901: Mining Technology/Technician
            *15.0999: Mining and Petroleum Technologies/Technicians,
                Other*

65442. Mechanical Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in mechanical engineering and related fields. It includes:

    Bac   **14.0201: Aerospace, Aeronautical, and Astronautical Engineering**
            14.1901: Mechanical Engineering
            14.2201: Naval Architecture and Marine Engineering
            **15.0801: Aeronautical and Aerospace Engineering Technology/
                Technician**
            15.0803: Automotive Engineering Technology/Technician
            **15.0805: Mechanical Engineering/Mechanical Technology/
                Technician**
            15.0899: Mechanical Engineering-Related Technologies/

65453. Agricultural Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in agricultural engineering. It includes:

    Bac   14.0301: Agricultural Engineering

65463. Forestry Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. program data which cannot be disaggregated from data reported under forestry (see 66262). Consequently, no U.S. program data exist.

65499. Other Engineering Programmes. This program group code as defined in ISCED corresponds to data reported for a wide variety of programs for which no specific ISCED assignment exists. These include:

    Bac   14.0101: Engineering, General
            14.0501: Bioengineering and Biomedical Engineering
            14.1101: Engineering Mechanics
            14.1201: Engineering Physics
            14.1301: Engineering Science
            14.1401: Environmental/Environmental Health Engineering
            14.1601: Geophysical Engineering
            14.1801: Materials Engineering
            14.2301: Nuclear Engineering
            14.2501: Petroleum Engineering
            14.2701: Systems Engineering
            14.2801: Textile Sciences and Engineering
            14.3101: Materials Science
            14.9999: Engineering, Other
            15.0304: Laser and Optical Technology/Technician
            15.0401: Biomedical Engineering-Related Technology/
                 Technician
            15.0501: Heating, Air Conditioning and Refrigeration
                 Technology/Technician
            15.0503: Energy Management and Systems Technology/Technician
            15.0506: Water Quality and Wastewater Treatment Technology/
                 Technician
            15.0507: Environmental and Pollution Control Technology/
                 Technician
            15.0599: Environmental Control Technologies/Technicians,

Other
15.0903: Petroleum Technology/Technician
15.1101: Engineering-Related Technology/Technician, General
15.9999: Engineering-Related Technologies/Technicians,
Other
41.0204: Industrial Radiologic Technology/Technician
41.0205: Nuclear/Nuclear Power Technology/Technician

658. Architectural and Town-Planning Programmes

U.S. professional degrees in architecture and urban planning are awarded at both the bachelor's and graduate levels. Bachelor's degree programs in architecture require from 5 to 6 years of study; the time for degrees in planning varies according to whether they are offered as architecture programs (preparatory to licensure) or not. The programs listed here prepare students for entry-level professional practice and for further study.

65801. General Programmes in Architecture. This program group code as defined in ISCED corresponds to data reported for U.S. undergraduate programs in architecture. It includes:

Bac   **04.0201: Architecture**

65802. Programmes in Structural Architecture. This program group code as defined in ISCED corresponds to data reported for U.S. undergraduate programs in architectural engineering and related fields. It includes:

Bac   **04.0501: Interior Architecture**
       14.0401: Architectural Engineering
       15.0101: Architectural Engineering Technology/Technician

65812. Programmes in Landscape Architecture. This program group code as defined in ISCED corresponds to data reported for U.S. undergraduate programs in landscape architecture. It includes:

Bac   **04.0601: Landscape Architecture**

65822. Programmes in Town or Community Planning. This program group code as defined in ISCED corresponds to data reported for U.S. undergraduate programs in urban planning and related fields. It includes:

Bac 04.0301: City/Urban, Community, and Regional Planning
04.0401: Architectural Environmental Design

65899. Other Programmes in Architecture and Town Planning. This code should be inserted at level 6 to report accurately U.S. data on architectural and related programs not elsewhere classified. It corresponds to:

Bac 04.9999: Architecture and Related Programs, Other
30.1201: Historic Preservation, Conservation, and Architectural History

662. Agricultural, Forestry and Fishery Programmes

In the ISCED system, this broad field includes programs related to veterinary medicine, whereas such programs are placed in the health professions and related sciences in U.S. data reporting. ISCED also combines forestry (which it defines to include wildlife management) and fishing programs with agriculture under this broad field, while U.S. classification practice separates them. U.S. undergraduate degree programs in these fields prepare students for employment, independent farm and agribusiness operations, and further study.

66201. General Programmes in Agriculture. This program group code as defined in ISCED corresponds to data reported on U.S. bachelor's degree general programs in agricultural sciences and business operations. It includes:

Bac 01.0101: Agricultural Business and Management, General
01.0301: Agricultural Production Workers and Managers, General
02.0101: Agriculture/Agricultural Sciences, General

66203. Animal Husbandry Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. bachelor's degree programs in animal husbandry, agricultural animal sciences, and related fields. It includes:

Bac 01.0302: Agricultural Animal Husbandry and Production Management
01.0303: Aquaculture Operations and Production Management
01.0399: Agricultural Production Workers and Managers, Other
02.0201: Animal Sciences, General
02.0202: Agricultural Animal Breeding and Genetics
02.0203: Agricultural Animal Health
02.0205: Agricultural Animal Physiology
02.0206: Dairy Science

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02.0209: Poultry Science
02.0299: Animal Sciences, Other

66206. Horticulture Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. bachelor's degree programs in horticulture science and the provision of various horticultural services. It corresponds to:

Bac 01.0601: Horticulture Services Operations and Management, General
01.0603: Ornamental Horticulture Operations and Management
01.0605: Landscaping Operations and Management
01.0606: Nursery Operations and Management
01.0607: Turf Management
01.0699: Horticulture Services Operations and Management, Other
02.0403: Horticulture Science

66208. Crop Husbandry Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. bachelor's degree programs in crop production and domesticated plant sciences. It corresponds to:

Bac *01.0304: Crop Production Operations and Management*
02.0401: Plant Sciences, General
02.0402: Agronomy and Crop Science
02.0408: Plant Protection (Pest Management)
02.0409: Range Science and Management
02.0499: Plant Sciences, Other

66212. Agricultural Economics Programmes. This program group code as defined in ISCED includes various agricultural business-related subjects as well as agricultural economics. The corresponding U.S. undergraduate program data are reported under:

Bac 01.0102: Agricultural Business/Agribusiness Operations
01.0103: Agricultural Economics
01.0104: Farm and Ranch Management
01.0199: Agricultural Business and Management, Other

66222. Food Sciences and Technology Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. undergraduate programs in food science and technology. It includes:

66226. Soil and Water Sciences Programmes. ISCED defines this program group code as referring to soil and water programs of different types at different levels. U.S. water resources programs pertaining to agriculture cannot be disaggregated from water resources programs reported under engineering and related technologies (see broad field 654) or elsewhere in the agriculture field. Corresponding U.S. undergraduate program data for soil sciences are reported under:

> **Bac 02.0501: Soil Sciences**

66232. Programmes in Veterinary Medicine. Veterinary medicine is a graduate-level field of study in the U.S. This program group code at level 6 as defined in ISCED corresponds to data reported for U.S. bachelor's degree programs preparing veterinary assistants and students seeking to enter veterinary medicine programs. It includes:

> **Bac 51.0808: Veterinary Assistant/Animal Health Technician**
> **51.1104: Pre-Veterinary Studies**

66249. Other Programmes in Agriculture. A number of other undergraduate agriculture-related programs are not assigned specific ISCED codes and should be reported here. They include:

> **Bac 01.0201: Agricultural Mechanization, General**
> *01.0204: Agricultural Power Machinery Operator*
> **01.0299: Agricultural Mechanization, Other**
> *01.0501: Agricultural Supplies Retailing and Wholesaling*
> *01.0505: Animal Trainer*
> **01.0507: Equestrian/Equine Studies, Horse Management, and Training**
> **01.9999: Agricultural Business and Production, Other**
> **02.9999: Agriculture/Agricultural Sciences, Other**

66262. Programmes in Forestry and Forest-Product Techniques. This program group code as defined in ISCED corresponds to data reported for U.S. bachelor's degree programs in various forestry specializations and wildlife management. It includes:

> **Bac 03.0401: Forest Harvesting and Production Technology/ Technician**
> **03.0404: Forest Products Technology/Technician**
> **03.0499: Forest Production and Processing, Other**

03.0501: Forestry, General
03.0502: Forestry Sciences
03.0506: Forest Management
03.0509: Wood Science and Pulp/Paper Technology
03.0599: Forestry and Related Sciences, Other
03.0601: Wildlife and Wildlands Management

66272. Fishery Technician Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. bachelor's degree programs in fisheries science and the management of fishing operations. It includes:

> Bac   03.0301: Fishing and Fisheries Sciences and Management

666. Home Economics (Domestic Science) Programmes

Only programs corresponding to the ISCED definition of home economics, and for which data are reported at this level, are included below. (See broad field 566 for an explanation of U.S. reporting practices in this field.) U.S. undergraduate home economics programs prepare students for employment in a variety of occupations including both traditional home economics-related fields and others such as family counseling, consulting, and positions in the food and housing industries. These programs also prepare students for further study in home economics or related disciplines.

66601. General Programmes in Home Economics. This program group code as defined in ISCED corresponds to data reported for U.S. undergraduate degree programs in general home economics, including:

> Bac   19.0101: Home Economics, General

66612. Programmes in Home Economics with Emphasis on Household and Consumer Food Research; Nutrition. This program group code as defined in ISCED includes institutional food services as well as home consumer and nutrition programs. U.S. undergraduate program data are reported under:

> Bac   19.0401: Family Resource Management Studies
> 19.0402: Consumer Economics and Science
> *19.0499: Family/Consumer Resource Management, Other*
> 19.0501: Foods and Nutrition Studies, General
> 19.0502: Foods and Nutrition Science
> 19.0503: Dietetics/Human Nutritional Services
> *19.0505: Food Systems Administration*

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19.0599: Foods and Nutrition Studies, Other
20.0401: Institutional Food Workers and Administrators,
General
20.0409: Institutional Food Services Administrator

66622. Programmes in Home Economics with Emphasis on Child Care. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs in child and family studies and the training of child care professionals. It includes:

Bac 19.0701: Individual and Family Development Studies, General
19.0706: Child Growth, Care, and Development Studies
19.0799: Individual and Family Development Studies, Other
20.0201: Child Care and Guidance Workers and Managers,
General
20.0299: Child Care and Guidance Workers and Managers,
Other

66632. Programmes in Home Economics with Emphasis on Household Arts. This program group code as defined in ISCED includes both housing/interiors studies and clothing and textile programs. Corresponding U.S. undergraduate programs for which data are reported include:

Bac 19.0601: Housing Studies, General
19.0603: Interior Environments
19.0699: Housing Studies, Other
19.0901: Clothing/Apparel and Textile Studies
20.0501: Home Furnishings and Equipment Installers and
Consultants, General
20.0599: Home Furnishings and Equipment Installers and
Consultants, Other

66699. Other Home Economics Programmes. This program group code as defined in ISCED corresponds to undergraduate program data reported on a variety of U.S. home economics fields, including:

Bac 19.0201: Business Home Economics
19.0301: Family and Community Studies
19.0704: Family Life and Relations Studies
19.9999: Home Economics, Other
20.0601: Custodial, Housekeeping and Home Services Workers
and Managers, General

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670. Transport and Communications Programmes

This ISCED broad field should be inserted at level 6 in order to report data consistently for U.S. undergraduate degree programs in certain fields defined in ISCED as transportation and communications. These include bachelor's degree programs preparing students to become merchant marine officers, commercial aviation aircrew officers, and aviation ground managers. Although these programs lead directly to employment, students may and do continue their studies in related fields such as engineering and business administration (depending on their qualifications).

67002. Air Crew Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs preparing flight crew for long-range commercial airlines. Standards for such crew positions differ from other commercial aviation in requiring extensive familiarity with engineering technology, law and regulations, navigation, management, and psychology. ISCED code 67002 includes:

    Bac   **49.0102: Aircraft Pilot and Navigator (Professional)**

67004. Ships' Officer Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs preparing merchant marine officers. U.S. merchant marine personnel are trained at both the bachelor's and less-than-4-year levels; the former programs provide more extensive grounding in both academic and practical subjects and lead to more responsible positions on larger vessels or in shore management, as well as preparing students for possible further study. ISCED code 67004 includes:

    Bac   **49.0309: Marine Science/Merchant Marine Officer**

67029. Other Communications Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs preparing various types of aviation management personnel not elsewhere classified. ISCED code 67029 includes:

    Bac   **49.0101: Aviation and Airway Science**
            49.0104: Aviation Management
            49.0105: Air Traffic Controller
            49.0199: Air Transportation Workers, Other
            49.9999: Transportation and Materials Moving Workers,

Other

678. Service Pr\`grammes

This ISCED broad field should be inserted at level 6 in order to report data consistently for U.S. undergraduate degree programs in certain fields defined in ISCED as service trades. These include programs preparing professionals in the hospitality and tourism fields, in sales-related fields, and in funeral services. Such programs are also offered at Level 5; bachelor's degree programs provide a broader background and prepare students for further study in related fields.

67812. Cosmetology Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for the few U.S. cosmetology programs completed at this level. It corresponds to:

> **Bac** *12.0403: Cosmetologist*

67822. Hotel and Restaurant Services Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for U.S. undergraduate hospitality services programs. It corresponds to:

> **Bac** *08.0901: Hospitality and Recreation Marketing Operations,*
> > *General*
> *08.0903: Recreation Products/Services Marketing Operations*
> *08.0999: Hospitality and Recreation Marketing Operations,*
> > *Other*
> **12.0504: Food and Beverage/Restaurant Operations Manager**

67862. Retailing Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for U.S. undergraduate retail services programs. It corresponds to:

> **Bac** **08.0101: Apparel and Accessories Marketing Operations,**
> > **General**
> **08.0102: Fashion Merchandising**
> *08.0199: Apparel and Accessories Marketing Operations,*
> > *Other*
> **08.0299: Business and Personal Services Marketing Operations,**
> > **Other**
> *08.0401: Financial Services Marketing Operations*
> *08.0601: Food Products Retailing and Wholesaling Operations*

08.0809: *Home Products Marketing Operations*
08.1203: *Vehicle Parts and Accessories Marketing Operations*
08.1299: *Vehicle and Petroleum Products Marketing Operations, Other*
08.9999: Marketing Operations/Marketing and Distribution, Other

67872. Tourism and Travel Services Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for U.S. undergraduate tourist services programs. It corresponds to:

Bac   **08.1104: Tourism Promotion Operations**
         08.1105: *Travel Services Marketing Operations*
         08.1199: Tourism and Travel Services Marketing Operatiors, Other

67899. Other Services Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for U.S. undergraduate programs in the service professions not elsewhere classified. It corresponds to:

Bac   **12.0301: Funeral Services and Mortuary Science**

684. Programmes in Mass Communications and Documentation

This ISCED broad field code includes the journalism and communications fields, library science and related fields, and miscellaneous technical programs associated with audiovisual communications. Each of these is reported separately in the United States, but are combined for ISCED reporting purposes. At the bachelor's degree level these programs prepare students for employment and, where appropriate, further study.

68402. Journalism Programmes. This program group code as defined in ISCED corresponds to undergraduate data reported for U.S. programs related to journalism and mass communications, including:

Bac   **09.0401: Journalism**
         09.0403: Mass Communications
         09.0499: Journalism and Mass Communications, Other

68404. Programmes in Radio and Television Broadcasting. This program group code as

defined in ISCED corresponds to undergraduate data reported for U.S. programs related to broadcast communications, including:

Bac   09.0402: Broadcast Journalism
09.0701: Radio and Television Broadcasting
10.0104: Radio and Television Broadcasting Technology/
    Technician

68407. Public Relations Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. undergraduate programs under the following code:

Bac   09.0501: Public Relations and Organizational Communications

68409. Other Programmes in Communications Arts. This program group code as defined in ISCED corresponds to undergraduate data reported for U.S. communications programs not elsewhere classified, including:

Bac   09.0101: Communications, General
09.9999: Communications, Other
10.0199: Communications Technologies/Technicians, Other

68422. Library Science Programmes. This program group code as defined in ISCED corresponds to undergraduate data reported for U.S. programs in library science, including:

Bac   25.0101: Library Science/Librarianship
25.9999: Library Science, Other

68425. Programmes for Museum Curators and Administrators. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs in museum studies. U.S. museum curators and administrators generally possess degrees in either an academic discipline related to the field of curatorial responsibility or a degree in a support field such as management, law, education, or public relations. Museum studies programs prepare entry-level professional curatorial staff and serve as adjuncts to parallel degree programs in a discipline. ISCED code 68425 includes:

Bac   *30.1401: Museology/Museum Studies*

689. Other Programmes of Education at the Third Level, First Stage of the Type that Leads to a First University Degree or the Equivalent

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ISCED uses this broad field to report data on a variety of classified programs as well as "other" or "unknown" programs. The identifiable program classifications assigned here include social work, community organization, R.O.T.C. programs, public safety (fire and law enforcement) programs, physical education and recreation, and natural resources and conservation. Data for these fields reported at level 6 refer to undergraduate programs preparing students for employment or further study.

68912. Programmes in Police Work and Related Law Enforcement. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs in law enforcement other than criminology (see 68913, below). It includes:

Bac 43.0102: Corrections/Correctional Administration
43.0103: Criminal Justice/Law Enforcement Administration
43.0104: Criminal Justice Studies
43.0106: Forensic Technology/Technician
43.0107: Law Enforcement/Police Science
43.0109: Security and Loss Prevention Services
43.0199: Criminal Justice and Corrections, Other

68913. Programmes in Criminology. This program group code as defined in ISCED corresponds to undergraduate data reported for U.S. programs in criminology, which is an academic discipline in the social sciences as well as a title used to refer to some professional police training. It includes:

Bac 45.0401: Criminology

68915. Fire-Protection Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs in fire protection services. It includes:

Bac 43.0201: Fire Protection and Safety Technology/Technician
43.0202: Fire Services Administration
43.0299: Fire Protection, Other

68917. Military Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs in military technologies. Aside from this program, the United States armed services do not grant degrees, nor do U.S. educational institutions, in specific military fields. Officers and enlisted personnel who possess postsecondary qualifications concentrate in civilian subjects such as engineering, business, and history, and their degrees —even from the

service academies — reflect regular academic studies. It is possible for personnel who have been commissioned as officers under the Reserve Officer Training Program (ROTC), which occurs on civilian campuses, to occasionally be listed as completing such programs in addition to their actual major. Data on ROTC completions are not routinely reported, however, because they do not lead to academic awards. Thus, the only data corresponding to this program group code which are normally reported would be under the following code:

Bac   *29.0101: Military Technologies*

68919. Other Civil Security and Military Programmes. This program group code as defined in ISCED corresponds only to the following U.S. code:

Bac   **43.9999: Protective Services, Other**

68932. Social Welfare Programmes. This program group code as defined in ISCED is the place to report undergraduate data on a variety of U.S. social and community assistance programs, including social work. As defined, it corresponds to:

Bac   *19.0703: Family and Marriage Counseling*
        19.0705: Gerontological Services
        44.0201: Community Organization, Resources and Services
        44.0701: Social Work

68942. Programmes in Vocational Counseling. There are no U.S. program data corresponding to this program group code, at this level, that can be disaggregated from codes reported elsewhere (see codes 65099 and 68932).

68952. Programmes in Environmental Studies. This program group code as defined in ISCED corresponds to undergraduate data reported for U.S. programs in environmental science and related natural resources conservation fields. It includes:

Bac   **03.0101: Natural Resources Conservation, General**
        03.0102: Environmental Science/Studies
        03.0201: Natural Resources Management and Policy
        03.0299: Natural Resources Management and Protective
                Services, Other
        03.9999: Conservation and Renewable Natural Resources,
                Other

68962. Programmes in Physical Education. This program group code is the appropriate

place to report undergraduate data on all U.S. physical education and related recreation programs that do not have to do with teacher education. As defined, it corresponds to:

Bac 31.0101: Parks, Recreation and Leisure Studies
      31.0301: Parks, Recreation and Leisure Facilities
              Management
      31.0501: Health and Physical Education, General
      31.0502: Adapted Physical Education/Therapeutic Recreation
      31.0503: Athletic Training and Sports Medicine
      31.0504: Sport and Fitness Administration/Management
      31.0505: Exercise Sciences/Physiology and Movement Studies
      31.0599: Health and Physical Education/Fitness, Other
      31.9999: Parks, Recreation, Leisure and Fitness Studies,
              Other

68972. Programmes in Nautical Science. No U.S. program corresponding to this ISCED program group code is known to exist.

68999. Other Programmes of Education, n.e.c. This program group code as defined in ISCED corresponds to undergraduate data reported for the following U.S. programs which are classified nowhere else:

Bac 30.1101: Gerontology
      30.1501: Science, Technology, and Society
      30.9999: Multi/Interdisciplinary Studies, Other

CHAPTER 9

Crosswalking Data at Level 7:
Education at the Third Level, Second Stage, of the Type that Leads to a Post-Graduate University Degree or Equivalent

ISCED level 7 corresponds to U.S. postsecondary programs as reported in the following IPEDS level categories:

Mas	*Master's Degree*
PMC	*Post-Master's Certificate*
Doc	*Doctor's Degree*
1PD	*First-Professional Degree*
1PC	*First-Professional Certificate (Post-Degree)*

The format for this section follows that used for levels 5 and 6 (see chapters 7 and 8).

ISCED collapses all data on postgraduate (the U.S. term is graduate) studies into a single category: level 7. For U.S. reporting purposes this means that level 7 data include what are called first-professional degrees in addition to the universally recognized master's and research doctorate degree categories.

The First-Professional Degree. First-professional degrees are entry-level qualifications required of persons seeking to be licensed to practice certain professions. They may, in addition, qualify students to seek admission to graduate-level research programs in the same or a related field. First-professional degrees are professional qualifications that can be earned only after the bachelor's degree or its equivalent has been achieved but are nevertheless considered initial degrees in a given professional practice field. They are, therefore, graduate level only in that they require prior completion of other undergraduate studies, but are not research degrees in their fields nor equivalent to graduate research degrees in other fields. Confusion sometimes arises because a number of U.S. first-professional degrees use the term "doctor" in the title. First-professional degrees are currently recognized in the fields of law, theology, and various health professions.

Other graduate-level professional programs and awards are not designated "first-professional" even though they are not research oriented. These include many master's and some doctoral degrees in education, business administration, certain health professions (such as nursing and allied health fields), engineering, architecture, and (religious) ministry. Since the titles of the degree awards in these fields do not necessarily reflect the kind of program completed or always represent the first credential earned in the field, these programs have not been designated first-professional.

The First-Professional Certificate. This award level was created at the same time as was the first-professional degree level. No data, to date, have ever been reported under it. For this reason, it is ignored in chapter 9 but is retained in the appendix for purposes of crosswalking any future data.

The Master's Degree. Master's degrees are the second full degree awarded by U.S. colleges and universities and may be earned in either academic or professional fields. In the case of fields recognized as awarding first-professional degrees, the master's degree follows the first-professional qualification. Master's degrees vary in type and length. In professional fields these degrees may provide work-related instruction and have no research component; in other fields students may be permitted to pursue a "thesis option" (researching and defending a thesis) or a "non-thesis option" (no thesis, but some research ability may be demonstrated through papers or projects). Length of program depends upon the level of student preparation, the field, and the regulations of the institution and faculty department. A growing number of universities and academic disciplines no longer require that a master's degree be earned prior to entering a doctoral program. The largest numbers of master's degrees are now earned in business administration and education; the former are nearly always work-related professional programs, while the latter may be either professional programs or research programs.

The Post-Master's Certificate. Like postbaccalaureate certificates at ISCED level 6, post-master's certificates are comparatively rarely awarded. The professional qualification of "education specialist" (EdSp), which is an advanced non-research credential offered in some teaching and administrative specialties in education, is reported under the this category even though it is not, strictly speaking, a certificate. The few CIP codes under which significant PMC level data are currently reported are listed below by corresponding ISCED code.

Programs Reporting Significant PMC Data, by ISCED Code		
ISCED Code	CIP Code	CIP Program Title
71401	13.0101	*Education, General*
	13.1202	*Elementary Teacher Education*
	13.1203	*Junior High/Intermediate/Middle School Teach r Education*
	13.1205	*Secondary Teacher Education*
	13.1299	*General Teacher Education, Other*
71404	13.1302	*Art Teacher Education*
	13.1305	*English Teacher Education*
	13.1311	*Mathematics Teacher Education*
	13.1312	*Music Teacher Education*

	13.1314	*Physical Education Teaching and Coaching*
	13.1315	*Reading Teacher Education*
	13.1316	*Science Teacher Education, General*
	13.1317	*Social Science Teacher Education*
	13.1321	*Computer Teacher Education*
71408	13.1303	*Business Teacher Education*
	13.1320	*Trade and Industrial Teacher Education*
71412	13.1204	*Pre-Elementary/Early Childhood/Kindergarten Teacher Education*
71422	13.1001	*Special Education, General*
	13.1005	*Education of the Emotionally Handicapped*
	13.1011	*Education of the Specific Learning Disabled*
71472	13.0301	*Curriculum and Instruction*
	13.0802	*Educational Psychology*
71499	13.0501	*Educational/Instructional Media Design*
	13.1101	*Counselor Education/Counseling and Guidance Services*
	13.1399	*Teacher Education, Specialized Academic and Vocational Programs, Other*
	13.9999	*Education, Other*
71822	50.0901	*Music, General*
	50.0903	*Music — General Performance*
71832	50.0501	*Drama/Theatre Arts, General*
72211	23.0101	*English Language and Literature, General*
	23.9999	*English Language and Literature/Letters, Other*
72215	16.0501	*German Language and Literature*
72231	16.0102	*Linguistics*
72241	23.0301	*Comparative Literature*
72251	45.0801	*History, General*
72271	38.0101	*Philosophy*
72600	39.0401	*Religious Education*
	39.0601	*Theology/Theological Studies*

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	39.0701	*Pastoral Counseling and Specialized Ministries*
73012	45.0601	*Economics, General*
73022	45.1001	*Political Science, General*
73032	45.1101	*Sociology*
73042	45.0201	*Anthropology*
73052	42.0101	*Psychology, General*
	42.0201	*Clinical Psychology*
	42.0601	*Counseling Psychology*
	42.1701	*School Psychology*
	42.9999	*Psychology, Other*
73401	52.0201	*Business Administration and Management, General*
73452	44.0401	*Public Administration*
73462	13.0401	*Education Administration and Supervision, General*
	13.0404	*Educational Supervision*
	13.0405	*Elementary, Middle, and Secondary School Administration*
	13.0406	*Higher Education Administration*
	13.0499	*Education Administration and Supervision, Other*
74212	40.0501	*Chemistry, General*
74601	27.0101	*Mathematics*
74641	11.0101	*Computer and Information Sciences, General*
75002	51.0301	*Community Health Liason*
75012	51.1699	*Nursing, Other*
75042	51.0501	*Dental Clinical Sciences/Graduate Dentistry (MS, PhD)*
75416	14.0801	*Civil Engineering, General*
75422	14.1001	*Electrical, Electronics, and Communications Engineering*
75442	14.0201	*Aerospace, Aeronautical, and Astronautical Engineering*
	14.1901	*Mechanical Engineering*

75499	14.9999	*Engineering, Other*
78422	25.0101	*Library Science/Librarianship*
78932	44.0701	*Social Work*

The list shows that most PMC level awards are in professional fields. These generally take the form of specialized qualifications, such as the aforementioned education specialist programs, or signify that a certain amount of work beyond the master's level has been completed. This additional work may qualify an individual in a subspeciality of his or her field or in an adjunct field. Insignificant PMC data are reported in several categories, including area studies, ethnic and cultural studies, foreign languages, health professions, and business. PMC data are not presented elsewhere in chapter 9, but full crosswalk instructions are provided in the appendix.

Graduate research degrees prepare students primarily for academic careers and positions as expert staff in firms, organizations, and government. U.S. universities and other postsecondary institutions possess internal regulations governing the process of hiring entry-level faculty members and advancing them toward tenure. Tenure, where it exists, is roughly equivalent to the European university status of habilitated doctor but results in no award of a second doc, ate. Neither does it carry the privileges and official recognition that the professoriate is accorded in some European and other systems.

701. General Programmes

This ISCED broad field should be inserted in order to report data accurately and consistently on U.S. graduate interdisciplinary programs in the liberal arts.

70100. General Programmes. This program group code needs to be inserted at ISCED level 7 (it appears at levels 5 and 6) in order to report data accurately on U.S. programs at the graduate level which are either: (a) individualized programs of studies designed by a student under faculty supervision and not corresponding to a regular major field; or (b) structured programs encompassing the interdisciplinary study of broad themes or issues, usually fr(n a humanistic or social scientific perspective. It includes:

> **Mas** **24.0101: Liberal Arts and Sciences/Liberal Studies**
> **24.0102: General Studies**
> **24.0199: Liberal Arts and Sciences/General Studies and**
> **Humanities, Other**

> **Doc** *24.0101: Liberal Arts and Sciences/Liberal Studies*

24.0102: General Studies
24.0199: Liberal Arts and Sciences/General Studies and
Humanities, Other

714. Programmes in Education Science and Teacher-Training

The master's degree (MEd, MAT) is increasingly becoming the preferred professional qualification for teachers at the PK-12th grade levels. It is also preferred for administrators at all levels of education, with school principals and postsecondary administrators often also earning education specialist (EdSp) or professional doctor's (EdD) degrees. Programs in the nonteaching and nonadministrative subfields of education, those defined as "education science" in ISCED, generally result in the award of the master of arts (MA) or science (MS), or the research doctorate (PhD). It should be noted that the use of the terminology for the doctorate in education is inconsistent across U.S. institutions. The terms "doctor of education" (EdD) and "doctor of philosophy" (PhD) are often used interchangeably for research and practice programs.

71401. General Programmes in Education Science. This program group code corresponds to data reported for U.S. graduate programs in education for which no specialization is indicated and for graduate programs in teacher education which focus on problems at a specific level. It includes:

Mas   **13.0101: Education, General**
          13.1202: Elementary Teacher Education
          13.1203: Junior High/Intermediate/Middle School Teacher Education
          13.1205: Secondary Teacher Education
          13.1206: Teacher Education, Multiple Levels
          13.1299: General Teacher Education, Other

Doc   **13.0101: Education, General**
          13.1202: Elementary Teacher Education
          13.1205: Secondary Teacher Education
          13.1206: Teacher Education, Multiple Levels
          13.1299: General Teacher Education, Other

71404. Programmes in Education with Specialization in Curriculum Development in a Non-Vocational Subject. This program group code corresponds to U.S. data reported for graduate programs which focus on problems in teaching non-vocational subjects. It includes:

Mas   **13.1302: Art Teacher Education**
          13.1305: English Teacher Education
          13.1306: Foreign Languages Teacher Education, General

13.1307: Health Teacher Education
13.1311: Mathematics Teacher Education
13.1312: Music Teacher Education
13.1314: Physical Education Teaching and Coaching
13.1315: Reading Teacher Education
13.1316: Science Teacher Education, General
13.1317: Social Science Teacher Education, General
13.1318: Social Studies Teacher Education
13.1321: Computer Teacher Education
13.1322: Biology Teacher Education
13.1323: Chemistry Teacher Education
13.1325: French Language Teacher Education
13.1328: History Teacher Education
13.1330: Spanish Language Teacher Education
13.1331: Speech Teacher Education
13.1401: Teaching English as a Second Language/Foreign
         Language

Doc   13.1302: Art Teacher Education
13.1305: English Teacher Education
13.1306: Foreign Languages Teacher Education, General
13.1307: Health Teacher Education
13.1311: Mathematics Teacher Education
13.1312: Music Teacher Education
13.1314: Physical Education Teaching and Coaching
13.1315: Reading Teacher Education
13.1316: Science Teacher Education, General
13.1317: Social Science Teacher Education, General
13.1318: Social Studies Teacher Education
13.1321: Computer Teacher Education
13.1401: Teaching English as a Second Language/Foreign
         Language

71408. Programmes in Education with Specialization in Curriculum Development in a Vocational Subject. This program group code corresponds to U.S. data reported for graduate programs which focus on problems in teaching vocational and related subjects. It includes:

Mas   13.1301: Agricultural Teacher Education
13.1303: Business Teacher Education
13.1304: Driver and Safety Teacher Education
13.1308: Home Economics Teacher Education
13.1309: Technology/Industrial Arts Teacher Education
13.1310: Marketing Operations/Marketing and Distribution Teacher

Education
13.1319: Technical Teacher Education
13.1320: Trade and Industrial Teacher Education
13.1327: Health Occupations Teacher Education

Doc   13.1301: Agricultural Teacher Education
       13.1303: Business Teacher Education
       13.1308: Home Economics Teacher Education
       13.1309: Technology/Industrial Arts Teacher Education
       13.1310: Marketing Operations/Marketing and Distribution Teacher
           Education
       13.1319: Technical Teacher Education
       13.1320: Trade and Industrial Teacher Education
       13.1327: Health Occupations Teacher Education

71412. Programmes with Specialization in Early Childhood Education. This program group code corresponds to U.S. data reported for graduate programs which focus on problems in teaching at the early childhood level (grades PK-3). It includes:

Mas   13.1204: Pre-Elementary/Early Childhood/Kindergarten
           Teacher Education

Doc   13.1204: Pre-Elementary/Early Childhood/Kindergarten
           Teacher Education

71416. Programmes with Specialization in Adult Education. This program group code corresponds to U.S. data reported for graduate programs which focus on problems in teaching at the adult level (adult literacy, adult basic education, continuing education). It includes:

Mas   13.1201: Adult and Continuing Teacher Education

Doc   13.1201: Adult and Continuing Teacher Education

71422. Programmes with Specialization in the Education of the Handicapped. This program group code corresponds to U.S. data reported for graduate programs which focus on problems in teaching students with conditions and disabilities affecting learning. It includes:

Mas   13.1001: Special Education, General
       13.1003: Education of the Deaf and Hearing Impaired
       13.1005: Education of the Emotionally Handicapped
       13.1006: Education of the Mentally Handicapped

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13.1007: Education of the Multiple Handicapped
13.1008: Education of the Physically Handicapped
13.1009: Education of the Blind and Visually Impaired
13.1011: Education of the Specific Learning Disabled
13.1012: Education of the Speech impaired
13.1099: Special Education, Other

Doc   13.1001: Special Education, General
13.1005: Education of the Emotionally Handicapped
13.1007: Education of the Multiple Handicapped
13.1011: Education of the Specific Learning Disabled
13.1099: Special Education, Other

71432. Programmes in Education for Teacher Trainers. No U.S. program data corresponding to this ISCED program group code exist.

71472. Programmes in Education Science without Teacher Training. This program group code corresponds to U.S. data reported for graduate programs in specific education subfields which focus on problems in research and assessment methods, theory, philosophy, the social context of education, and the learning and growth process. It includes:

Mas   13.0301: Curriculum and Instruction
13.0601: Educational Evaluation and Research
13.0603: Educational Statistics and Research Methods
13.0604: Educational Assessment, Testing, and Measurement
13.0699: Educational Evaluation, Research, and Statistics, Other
13.0701: International and Comparative Education
13.0802: Educational Psychology
13.0901: Social and Philosophical Foundations of Education

Doc   13.0301: Curriculum and Instruction
13.0601: Educational Evaluation and Research
13.0603: Educational Statistics and Research Methods
13.0604: Educational Assessment, Testing, and Measurement
13.0699: Educational Evaluation, Research, and Statistics, Other
13.0701: International and Comparative Education
13.0802: Educational Psychology
13.0901: Social and Philosophical Foundations of Education

71499. Other Programmes in Education Science and Teacher Training. This program group code corresponds to U.S. data reported on graduate programs in education which do not fit under other ISCED program group codes in this field at Level 7, including:

Mas   13.0201: Bilingual/Bicultural Education
       13.0501: Educational/Instructional Media Design
       13.1101: Counselor Education/Counseling and Guidance Services
       13.1102: College/Postsecondary Student Counseling and Personnel Services
       13.1399: Teacher Education, Specialized Academic and Vocational
               Programs, Other
       13.9999: Education, Other

Doc   13.0201: Bilingual/Bicultural Education
       13.0501: Educational/Instructional Media Design
       13.1101: Counselor Education/Counseling and Guidance Services
       13.1102: College/Postsecondary Student Counseling and Personnel Services
       13.1399: Teacher Education, Specialized Academic and Vocational
               Programs, Other
       13.9999: Education, Other

718. Fine and Applied Arts Programmes

U.S. graduate programs in the visual and performing arts consist of both academic and professionally oriented offerings. The instructional activity takes place in colleges and universities as well as independent schools (academies, conservatories) specializing in one or more of the arts.

71801. General Programmes of Art Studies. This program group code needs to be inserted at ISCED level 7 (it appears at levels 5 and 6) in order to report data accurately on U.S. art programs at the graduate level which do not specify the subfield of concentration. It includes:

Mas   50.0401: Design and Visual Communications
       50.0701: Art, General
       50.0702: Fine/Studio Arts

Doc   50.0701: Art, General

71802. Programmes in the History and Philosophy of Art. This program group code corresponds to U.S. data reported for graduate programs in art history and related specializations in conservation and connoisseurship. It includes:

Mas   50.0703: Art History, Criticism, and Conservation

Doc   50.0703: Art History, Criticism, and Conservation

71804. Programmes in Drawing and Painting. This program group code corresponds to U.S. data reported for graduate programs in studio art focusing on drawing, painting, and printmaking techniques. It includes:

> Mas 50.0705: **Drawing**
> 50.0708: **Painting**
> 50.0710: **Printmaking**

> Doc No data currently reported.

71808. Programmes in Sculpturing. This program group code corresponds to U.S. data reported for graduate programs in studio art focusing on sculpture techniques. It includes:

> Mas 50.0709: **Sculpture**

> Doc No data currently reported.

71812. Programmes in Handicrafts. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately on U.S. graduate programs in the folk arts and crafts. These artistic disciplines are frequently taught in U.S. fine arts programs and are regarded as legitimate subjects of advanced study as part of the national cultural heritage. ISCED code 71812 includes:

> Mas 50.0201: *Crafts, Folk Art, and Artisanry*
> 50.0711: **Ceramic Arts and Ceramics**
> 50.0712: **Fiber, Textile, and Weaving Arts**
> 50.0713: **Metal and Jewelry Arts**

> Doc 50.0712: *Fiber, Textile, and Weaving Arts*

71822. Programmes in Music. This program group code corresponds to U.S. data reported for graduate programs in music scholarship, theory, composition, and performance. It includes:

> Mas 50.0901: **Music, General**
> 50.0902: **Music History and Literature**
> 50.0903: **Music—General Performance**
> 50.0904: **Music Theory and Composition**
> 50.0905: *Musicology and Ethnomusicology*
> 50.0906: **Music Conducting**
> 50.0907: **Music—Piano and Organ Performance**
> 50.0908: **Music—Voice and Choral/Opera Performance**

50.0999: Music, Other

Doc   50.0901: Music, General
50.0902: Music History and Literature
50.0903: Music—General Performance
50.0904: Music Theory and Composition
50.0905: Musicology and Ethnomusicology
50.0906: Music Conducting
50.0907: Music—Piano and Organ Performance
50.0999: Music, Other

71832. Programmes in the Drama. This program group code corresponds to U.S. data reported for graduate programs in the dramatic arts. It includes:

Mas   50.0501: Drama/Theatre Arts, General
50.0502: Technical Theatre/Theatre Design and Stagecraft
50.0503: Acting and Directing
50.0599: Drama/Theatre Arts and Stagecraft, Other

Doc   50.0501: Drama/Theatre Arts, General

71842. Programmes in Photography and Cinematography. This program group code should be inserted at level 7 (it appears at level 5) in order to report data accurately on U.S. graduate programs in photography and film. ISCED code 71842 includes:

Mas   50.0601: Film/Cinema Studies
50.0602: Film-Video Making/Cinematography and Production
50.0605: Photography
50.0699: Film/Video and Photographic Arts, Other

Doc   No data currently reported.

71852. Programmes in Interior Design. This program group code corresponds to U.S. data reported for graduate programs in interior design. It includes:

Mas   *50.0408: Interior Design*

Doc   No data currently reported.

71899. Other Fine and Applied Arts Programmes. This program group code corresponds to U.S. data reported for a variety of graduate arts programs which do not correspond to any

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other ISCED program group code at this level. These include:

Mas 50.0101: Visual and Performing Arts
50.0301: Dance
50.0402: Graphic Design, Commercial Art and Illustration
50.0404: Industrial Design
50.0407: Fashion Design and Illustration
50.0499: Design and Applied Arts, Other
50.0704: Arts Management
50.0706: Intermedia
50.0799: Fine Arts and Art Studies, Other
50.9999: Visual and Performing Arts, Other

Doc 50.0101: Visual and Performing Arts
50.0301: Dance
50.0407: Fashion Design and Illustration
50.0799: Fine Arts and Art Studies, Other
50.9999: Visual and Performing Arts, Other

722. Humanities Programmes

Intensive, specialized, and professional study of the humanities in the United States occurs at the graduate level. This study builds upon the broad multidisciplinary foundation laid at the bachelor's degree level as well as the focused introduction to the study of a humanities (or related) field provided through the undergraduate major. Most graduate programs in the humanities focus on preparing professional scholars, although an increasing emphasis on alternative career preparation has emerged in recent years in light of the limited academic job market.

While this crosswalk follows ISCED practice, it should be noted that in the U.S. religious studies and art studies programs (art history, music history, drama studies, film studies, general visual/performing arts studies) are considered to be humanities subjects, and their program data would be reported domestically in this category.

72201. General Programmes in the Humanities. This program group code needs to be inserted at ISCED level 7 (it appears at levels 5 and 6) in order to report data accurately on U.S. humanities programs at the graduate level which are interdisciplinary in character. It includes:

Mas 24.0103: Humanities/Humanistic Studies

Doc 24.0103: Humanities/Humanistic Studies

72208. Other Programmes in Languages, Except the Current or Vernacular Language. This program group code should be inserted at Level 7 (it appears only at Level 5) to report data consistently on U.S. graduate programs in foreign languages in which the specific language studied is not identified by name. It includes:

Mas   16.0101: Foreign Languages and Literatures, General

Doc   16.0101: Foreign Languages and Literatures, General

72211. Programmes in the Current or Vernacular Language and Its Literature. This program group code corresponds, in U.S. terms, to data reported for various graduate programs in English. It includes:

Mas   23.0101: English Language and Literature, General
        23.0401: English Composition
        23.0501: English Creative Writing
        23.0701: American Literature (United States)
        23.0801: English Literature (British and Commonwealth)   ·
        23.1001: Speech and Rhetorical Studies
        23.1101: English Technical and Business Writing
        23.9999: English Language and Literature/Letters, Other

Doc   23.0101: English Language and Literature, General
        23.0401: English Composition
        23.0501: English Creative Writing
        23.0701: American Literature (United States)
        23.0801: English Literature (British and Commonwealth)
        23.1001: Speech and Rhetorical Studies
        23.9999: English Language and Literature/Letters, Other

72215. Programmes in Other Living Languages and Their Literature. This program group code corresponds to data reported for U.S. graduate programs in modern foreign languages. It includes:

Mas   16.0301: Chinese Language and Literature
        16.0302: Japanese Language and Literature
        16.0399: East and Southeast Asian Languages and Literatures, Other
        16.0402: Russian Language and Literature
        16.0403: Slavic Languages and Literatures (Other Than Russian)
        16.0499: East European Languages and Literatures, Other
        16.0501: German Language and Literature
        16.0502: Scandinavian Languages and Literatures
        16.0599: Germanic Languages and Literatures, Other

16.0602: *Greek Language and Literature (Modern)*
16.0703: *South Asian Languages and Literatures*
16.0901: French Language and Literature
16.0902: Italian Language and Literature
16.0904: *Portuguese Language and Literature*
16.0905: Spanish Language and Literature
16.0999: Romance Languages and Literatures, Other
16.1102: Hebrew Language and Literature
16.1199: *Middle Eastern Languages and Literatures, Other*
16.9999: Foreign Languages and Literatures, Other

Doc   16.0301: *Chinese Language and Literature*
16.0302: *Japanese Language and Literature*
16.0399: East and Southeast Asian Languages and Literatures, Other
16.0402: *Russian Language and Literature*
16.0403: Slavic Languages and Literatures (Other Than Russian)
16.0499: *East European Languages and Literatures, Other*
16.0501: German Language and Literature
16.0502: *Scandinavian Languages and Literatures*
16.0599: Germanic Languages and Literatures, Other
16.0703: *South Asian Languages and Literatures*
16.0901: French Language and Literature
16.0902: Italian Language and Literature
16.0904: *Portuguese Language and Literature*
16.0905: Spanish Language and Literature
16.0999: Romance Languages and Literatures, Other
16.1101: *Arabic Language and Literature*
16.1102: *Hebrew Language and Literature*
16.1199: *Middle Eastern Languages and Literatures, Other*
16.9999: Foreign Languages and Literatures, Other

72221. Programmes in "Dead" Languages and Their Literature. This program group code corresponds to data reported for U.S. graduate programs in classics and ancient languages at the bachelor's degree level. It includes:

Mas   **16.1201: Classics and Classical Languages and Literatures**
16.1202: Greek Language and Literature (Ancient and Medieval)
16.1203: Latin Language and Literature (Ancient and Medieval)
16.1299: *Classical and Ancient Near Eastern Languages and Literatures, Other*

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Doc   16.1201: Classics and Classical Languages and Literatures
16.1202: Greek Language and Literature (Ancient and Medieval)

72231. Programmes in Linguistics. This program group code corresponds to U.S. data reported for the following program:

Mas   16.0102: Linguistics

Doc   16.0102: Linguistics

72241. Programmes in Comparative Literature. This program group code corresponds to U.S. data reported for the following program:

Mas   23.0301: Comparative Literature

Doc   23.0301: Comparative Literature

72251. Programmes in History. This program group code corresponds to U.S. data reported for graduate programs in history and related fields. It includes:

Mas   45.0801: History, General
45.0802: American (United States) History
45.0804: History and Philosophy of Science and Technology
45.0805: Public/Applied History and Archival Administration
45.0899: History, Other

Doc   45.0801: History, General
45.0802: American (United States) History
45.0804: History and Philosophy of Science and Technology
45.0899: History, Other

72261. Programmes in Archaeology. This program group code corresponds to U.S. data reported for graduate programs in archaeology. It includes:

Mas   45.0301: Archaeology

Doc   45.0301: Archaeology

72271. Programmes in Philosophy. This program group code corresponds to U.S. graduate program data reported for the following:

Mas 38.0101: Philosophy

Doc 38.0101: Philosophy

72299. Other Humanities Programs. This program group code corresponds to U.S. data reported for a variety of graduate-level humanities programs which do not correspond to any other ISCED program group code at this level, including:

Mas 05.0204: Islamic Studies
     05.0205: Jewish/Judaic Studies
     30.1301: Medieval and Renaissance Studies

Doc 05.0204: Islamic Studies
     05.0205: Jewish/Judaic Studies
     30.1301: Medieval and Renaissance Studies

726. Religion and Theology Programmes

Programs in religious studies and the theological vocations are reported separately inside the United States, but are combined here following ISCED practice. Graduate-level religious studies programs are classified as part of the academic humanities and typically lead to the award of research degrees (MA, PhD). Programs at the graduate level in the religious vocations may be first-professional degrees leading to rabbinical, priestly, or ministerial ordination; advanced professional practice credentials (master's or professional doctorates, especially the degree "Doctor of Ministry" (DMin)) in some vocational specialty; or research degrees (MA, ThM, PhD, ThD) in theology, biblical studies, or another field. As stated in previous chapters, direct graduate level vocational preparation for religious occupations is provided only by private colleges, seminaries, and universities. Public institutions offer graduate programs in the academic study of religion but not in religious training per se.[29]

72600. Religion and Theology Programmes. This program group code corresponds to U.S. data reported for graduate programs in religion and the theological vocations. It includes:

1PD 39.0602: Divinity/Ministry (BD, MDiv)
     39.0603: Rabbinical and Talmudic Studies (MHL, Rav)

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[29] Refer to the discussion of this topic under broad fields 526 and 626 in chapters 7 and 8, and footnote 25 in chapter 7.

Mas 38.0201: Religion/Religious Studies
38.9999: Philosophy and Religion
39.0101: Biblical and Other Theological Languages and
Literatures
39.0201: Bible/Biblical Studies
39.0301: Missions/Missionary Studies and Missiology
39.0401: Religious Education
39.0501: Religious/Sacred Music
39.0601: Theology/Theological Studies
39.0699: Theological and Ministerial Studies, Other
39.0701: Pastoral Counseling and Specialized Ministries
39.9999: Theological Studies and Religious Vocations,
Other

Doc 38.0201: Religion/Religious Studies
38.9999: Philosophy and Religion
39.0101: Biblical and Other Theological Languages and
Literatures
39.0201: Bible/Biblical Studies
39.0301: Missions/Missionary Studies and Missiology
39.0401: Religious Education
39.0501: Religious/Sacred Music
39.0601: Theology/Theological Studies
39.0699: Theological and Ministerial Studies, Other
39.0701: Pastoral Counseling and Specialized Ministries
39.9999: Theological Studies and Religious Vocations,
Other

730. Social and Behavioural Science Programmes

The observations made about humanities programs at the U.S. equivalent of ISCED level 7
(see broad field 722, above) also apply to social sciences programs.

73001. General Programmes in the Social and Behavioural Sciences. This program
group code needs to be inserted at ISCED level 7 (it appears at levels 5 and 6) in order to
report data accurately on U.S. social sciences programs at the graduate level which are
interdisciplinary in character. It includes:

Mas 45.0101: Social Sciences, General

Doc 45.0101: Social Sciences, General

73012. Economics Programmes. This program group code corresponds to U.S. data reported for graduate programs in economics. It includes:

Mas   **45.0601: Economics, General**
       45.0602: Applied and Resource Economics
       45.0604: Development Economics and International Development
       45.0605: International Economics
       45.0699: Economics, Other

Doc   **45.0601: Economics, General**
       45.0605: International Economics
       45.0699: Economics, Other

73022. Political Science Programmes. This program group code as defined in ISCED corresponds to U.S. data reported on graduate programs in international relations and political science. It includes:

Mas   **45.0901: International Relations and Affairs**
       45.1001: Political Science, General
       45.1099: Political Science and Government, Other

Doc   **45.0901: International Relations and Affairs**
       45.1001: Political Science, General
       45.1099: Political Science and Government, Other

73032. Sociology Programmes. This program group code corresponds to U.S. data reported for graduate programs in sociology. It includes:

Mas   **45.1101: Sociology**

Doc   **45.1101: Sociology**

73042. Anthropology Programmes. This program group code corresponds to U.S. data reported on graduate programs in anthropology. It includes:

Mas   **45.0201: Anthropology**

Doc   **45.0201: Anthropology**

73052. Programmes in Psychology. This program group code corresponds to U.S. data reported on graduate programs in psychology which may lead to research qualifications,

licensure to practice as clinicians, or both. It includes:

Mas   42.0101: Psychology, General
       42.0201: Clinical Psychology
       42.0301: Cognitive Psychology and Psycholinguistics
       42.0401: Community Psychology
       42.0601: Counseling Psychology
       42.0701: Developmental and Child Psychology
       42.0801: Experimental Psychology
       42.0901: Industrial and Organizational Psychology
       42.1101: Physiological Psychology/Psychobiology
       42.1601: Social Psychology
       42.1701: School Psychology
       42.9999: Psychology, Other

Doc   42.0101: Psychology, General
       42.0201: Clinical Psychology
       42.0301: Cognitive Psychology and Psycholinguistics
       42.0601: Counseling Psychology
       42.0701: Developmental and Child Psychology
       42.0801: Experimental Psychology
       42.0901: Industrial and Orf anizational Psychology
       42.1101: Physiological Psychology/Psychobiology
       42.1601: Social Psychology
       42.1701: School Psychology
       42.9999: Psychology, Other

73062. Geography Programmes. This program group code corresponds to U.S. data reported on graduate programs in geography and cartography. It includes:

Mas   45.0701: Geography
       45.0702: Cartography

Doc   45.0701: Geography

73072. Studies of Regional Cultures. This program group code corresponds to U.S. data reported for graduate programs in area studies. Such programs are usually grounded in a specific discipline's methodology and theory but consider research from a variety of perspectives and disciplines in approaching the subject studied. ISCED CODE 73072 includes:

Mas   *05.0101: African Studies*
       05.0102: American Studies/Civilization

05.0103: Asian Studies
05.0104: East Asian Studies
05.0105: Eastern European Area Studies
05.0106: European Studies
05.0107: Latin American Studies
05.0108: Middle Eastern Studies
05.0109: Pacific Area Studies
05.0110: Russian and Slavic Area Studies
05.0111: Scandinavian Area Studies
05.0112: South Asian Studies
05.0113: Southeast Asian Studies
05.0114: Western European Studies
05.0199: Area Studies, Other

Doc   *05.0101: African Studies*
05.0102: American Studies/Civilization
05.0103: Asian Studies
05.0104: East Asian Studies
05.0107: Latin American Studies
05.0108: Middle Eastern Studies
05.0110: Russian and Slavic Area Studies
05.0111: Scandinavian Area Studies
05.0112: South Asian Studies
05.0113: Southeast Asian Studies
05.0199: Area Studies, Other

73099. Other Programmes in Social and Behavioural Science. U.S. institutions offer other graduate study programs similar to area studies but dealing with minority group issues, urban issues, and issues pertaining to women. ISCED code 73099 corresponds to:

Mas   05.0201: Afro-American (Black) Studies
05.0202: American Indian/Native American Studies
05.0203: Hispanic-American Studies
05.0207: Women's Studies
05.0299: Ethnic and Cultural Studies, Other
05.9999: Area, Ethnic, and Cultural Studies, Other
30.0501: Peace and Conflict Studies
45.0501: Demography/Population Studies
45.1201: Urban Affairs/Studies
45.9999: Social Sciences and History, Other

Doc   *05.0201: Afro-American (Black) Studies*
05.0299: Ethnic and Cultural Studies, Other
05.9999: Area, Ethnic, and Cultural Studies, Other

45.0501: Demography/Population Studies
45.1201: Urban Affairs/Studies
45.9999: Social Sciences and History, Other

734. Business Administration and Related Programmes

U.S. business administration degrees at the master's degree level are predominantly professional in character. This is especially true of the "master's of business administration" (MBA) degree, which is designed for persons seeking immediate employment in managerial positions. Business doctorates are research oriented more often than not, as are master's degrees in some fields such as business economics, quantitative methods, and research.

Master's, specialist, and doctoral degrees in educational administration may be practice or research oriented, depending upon the focus of a particular institution's program and the study plan of a particular student. Graduate degrees in health administration and public administration follow the same pattern as in education.

73401. General Programmes in Business Administration. This program group code should be inserted at level 7 (it appears only at levels 5 and 6) to report data accurately and consistently for U.S. graduate programs in business administration which prepare management generalists or which specify no concentration. It corresponds to:

Mas 52.0101: Business, General
52.0201: Business Administration and Management, General

Doc 52.0101: Business, General
52.0201: Business Administration and Management, General

73426. Programmes in Management Information Systems. This program group code should be inserted at Level 7 (it appears only at Level 5) to report data accurately and consistently for U.S. graduate programs in management information systems. This program group code, as defined in ISCED, corresponds to:

Mas 52.1201: Management Information Systems and Business Data Processing, General
52.1204: Business Systems Networking and Telecommunications

Doc 52.1201: Management Information Systems and Business Data Processing, General

73432. Programmes in Business Administration with Specialization in Accountancy. This program group code corresponds to U.S. data reported for graduate programs in accounting. It includes:

Mas   52.0301: Accounting
          52.0399: Accounting, Other

Doc   52.0301: Accounting

73434. Programmes in Business Administration with Specialization in Marketing. This program group code corresponds to U.S. data reported for graduate programs in marketing. It includes:

Mas   *08.0704: General Buying Operations*
          08.0708: General Marketing Operations
          09.0201: Advertising
          52.1401: Business Marketing and Marketing Management, General
          52.1402: Marketing Research
          52.1403: International Business Marketing
          52.1499: Marketing Management and Research, Other

Doc   *09.0201: Advertising*
          52.1401: Business Marketing and Marketing Management, General
          52.1402: Marketing Research
          52.1499: Marketing Management and Research, Other

73436. Programmes in Business Administration with Specialization in Finance and Investment. This program group code corresponds to U.S. data reported for graduate programs in financial management and related fields. It includes:

Mas   52.0801: Finance, General
          52.0803: Banking and Financial Support Services
          52.0804: Financial Planning
          52.0805: Insurance and Risk Management
          52.0805: International Finance
          52.0807: Investments and Securities
          52.0899: Financial Management and Services, Other
          52.1601: Taxation

Doc   52.0801: Finance, General
          52.0803: Banking and Financial Support Services
          52.0805: Insurance and Risk Management

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73439. Programmes in Business Administration with Other Specialization. A great many business administration specialties are not assigned separate categories in ISCED. Data reported on these programs needs to be assigned to the "other" program group. This program group code, as defined in ISCED, corresponds to:

Mas   *08.0301: Entrepreneurship*
       52.0202: Purchasing, Procurement and Contracts Management
       52.0203: Logistics and Materials Management
       52.0205: Operations Management and Supervision
       52.0299: Business Administration and Management, Other
       52.0601: Business/Managerial Economics
       52.0701: Enterprise Management and Operation, General
       52.0901: Hospitality Administration/Management
       52.0902: Hotel/Motel and Restaurant Management
       52.0903: Travel and Tourism Management
       52.0901: Hospitality Services Management, Other
       52.1001: Human Resources Management
       52.1002: Labor/Personnel Relations and Studies
       52.1003: Organizational Behavior Studies
       52.1101: International Business
       52.1301: Management Science
       52.1302: Business Statistics
       52.1399: Business Quantitative Methods and Management
           Science, Other
       52.1501: Real Estate
       52.9999: Business Management and Administrative Services,
           Other

Doc   52.0205: Operations Management and Supervision
       52.0299: Business Administration and Management, Other
       52.0601: Business/Managerial Economics
       52.0902: Hotel/Motel and Restaurant Management
       52.1001: Human Resources Management
       52.1002: Labor/Personnel Relations and Studies
       52.1003: Organizational Behavior Studies
       52.1101: International Business
       52.1301: Management Science
       52.1302: Business Statistics
       52.1399: Business Quantitative Methods and Management
           Science, Other
       52.1501: Real Estate
       52.9999: Business Management and Administrative Services,
           Other

73452. Programmes in Public Administration. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in public administration. It includes:

Mas 44.0401: Public Administration
44.0501: Public Policy Analysis
44.9999: Public Administration and Services, Other

Doc 44.0401: Public Administration
44.0501: Public Policy Analysis
44.9999: Public Administration and Services, Other

73462. Programmes in Institutional Administration. This program group code corresponds to U.S. data reported for the graduate programs which the ISCED system assigns to it, including education, health care, and nonprofit organization administration. The programs reporting data at this level are:

Mas 13.0401: Education Administration and Supervision, General
13.0402: Administration of Special Education
13.0403: Adult and Continuing Education Administration
13.0404: Educational Supervision
13.0405: Elementary, Middle, and Secondary School Administration
13.0406: Higher Education Administration
13.0407: Community and Junior College Administration
13.0499: Education Administration and Supervision, Other
51.0701: Health System/Health Services Administration
51.0702: Hospital/Health Facilities Administration
51.0707: Medical Records Technology/Technician
51.0799: Health and Medical Administrative Services, Other
52.0206: Non-Profit and Public Management

Doc 13.0401: Education Administration and Supervision, General
13.0402: Administration of Special Education
13.0403: Adult and Continuing Education Administration
13.0404: Educational Supervision
13.0405: Elementary, Middle, and Secondary School Administration
13.0406: Higher Education Administration
13.0407: Community and Junior College Administration
13.0499: Education Administration and Supervision, Other
51.0701: Health System/Health Services Administration
51.0702: Hospital/Health Facilities Administration
51.0707: Medical Records Technology/Technician
51.0799: Health and Medical Administrative Services, Other

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738. Law and Jurisprudence Programmes

U.S. programs in law corresponding to ISCED level 7 include both first-professional degrees in law and advanced degrees. The first-professional degree in law is called *Juris Doctor* (JD); it was formerly called a bachelor of laws (LLB). First-professional law degrees are not specialist in nature. Specialization typically comes later, after a degree earner has been admitted to practice, obtained a job, and begun to focus on a career path. Master's degrees in law either prepare specialist practitioners or serve as an intermediate research qualification, depending on the program and the goals of the student. Most master's degrees in law are abbreviated LL'M, but the abbreviation MCL is also encountered. This latter abbreviation stands for "master of comparative law" and is a degree awarded to foreign lawyers and scholars completing an advanced introductory program in U.S. law, and less frequently to U.S. holders of the JD degree who complete a program in the study of a foreign legal system or systems. The research doctorate in law is the Doctor of Juridical Science (SJD or JSD).

73801. General Programmes in Law. This program group code should be inserted at level 7 (it appears only at level 6) to report data accurately and consistently on U.S. graduate programs in law of a generalist character. The primary such award at this level is the first-professional degree in law. ISCED code 73801 includes:

>**1PD** **22.0101: Law (LLB, JD)**
>
>**Mas** *22.0103: Paralegal/Legal Assistant*
>
>**Doc** No data currently reported.

73802. Programmes in Jurisprudence and History of Law. No U.S. program data corresponding to this program group code can be disaggregated from data reported elsewhere under this broad field (see 73899, below).

73804. Programmes in International Law. No U.S. program data corresponding to this program group code can be disaggregated from data reported elsewhere under this broad field (see 73899, below).

73806. Programmes in Labour Law. No U.S. program data corresponding to this program group code can be disaggregated from data reported elsewhere under this broad field (see 73899, below).

73808. Programmes in Maritime Law. No U.S. program data corresponding to this program group code can be disaggregated from data reported elsewhere under this broad

field (see 73899, below).

73899. Other Law and Jurisprudence Programmes. This program group code is the appropriate place to report U.S. data for graduate programs in law not elsewhere classifiable, including graduate level programs in legal scholarship. It corresponds to:

Mas   22.0104: Juridical Science/Legal Specialization (LLM, MCL, JSD/SJD)
             22.0199: Law and Legal Studies, Other

Doc   22.0104: Juridical Science/Legal Specialization (LLM, MCL, JSD/SJD)
             22.0199: Law and Legal Studies, Other

742. Natural Science Programmes

This ISCED broad field describes both biological and physical sciences programs at the graduate level. Graduate degrees in the sciences prepare students for research careers in academia as well as in government and private laboratories or other establishments.

74202. Biological Sciences Programmes. This program group code as defined in ISCED corresponds to U.S. data reported on the entire range of graduate-level biological science programs. ISCED code 74202 includes:

Mas   26.0101: **Biology, General**
             26.0202: **Biochemistry**
             26.0203: **Biophysics**
             26.0301: **Botany, General**
             26.0305: **Plant Pathology**
             26.0307: *Plant Physiology*
             26.0399: *Botany, Other*
             26.0401: **Cell Biology**
             26.0402: **Molecular Biology**
             26.0499: **Cell and Molecular Biology, Other**
             26.0501: **Microbiology/Bacteriology**
             26.0601: **Anatomy**
             26.0603: **Ecology**
             26.0607: **Marine/Aquatic Biology**
             26.0608: **Neuroscience**
             26.0609: **Nutritional Sciences**
             26.0610: *Parasitology*
             26.0611: **Radiation Biology/Radiobiology**
             26.0612: **Toxicology**
             26.0613: **Genetics, Plant and Animal**

26.0614: Biometrics
26.0615: Biostatistics
26.0616: Biotechnology Research
26.0618: Biological Immunology
26.0619: Virology
26.0699: Miscellaneous Biological Specializations, Other
26.0701: Zoology, General
26.0702: Entomology
26.0704: Pathology, Human and Animal
26.0705: Pharmacology, Human and Animal
26.0706: Physiology, Human and Animal
26.9999: Biological Sciences/Life Sciences, Other

Doc   26.0101: Biology, General
26.0202: Biochemistry
26.0203: Biophysics
26.0301: Botany, General
26.0305: Plant Pathology
26.0307: Plant Physiology
26.0399: Botany, Other
26.0401: Cell Biology
26.0402: Molecular Biology
26.0499: Cell and Molecular Biology, Other
26.0501: Microbiology/Bacteriology
26.0601: Anatomy
26.0603: Ecology
26.0607: Marine/Aquatic Biology
26.0608: Neuroscience
26.0609: Nutritional Sciences
26.0610: Parasitology
26.0611: Radiation Biology/Radiobiology
26.0612: Toxicology
26.0613: Genetics, Plant and Animal
26.0614: Biometrics
26.0615: Biostatistics
26.0618: Biological Immunology
26.0619: Virology
26.0699: Miscellaneous Biological Specializations, Other
26.0701: Zoology, General
26.0702: Entomology
26.0704: Pathology, Human and Animal
26.0705: Pharmacology, Human and Animal
26.0706: Physiology, Human and Animal
26.0701: Zoology, Other
26.9999: Biological Sciences/Life Sciences, Other

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74212. Chemistry Programmes. This program group code corresponds to U.S. data reported for the following graduate programs in chemistry:

Mas   **40.0501: Chemistry, General**
         40.0502: Analytical Chemistry
         40.0503: Inorganic Chemistry
         40.0504: Organic Chemistry
         40.0505: Medicinal/Pharmaceutical Chemistry
         40.0506: Physical and Theoretical Chemistry
         40.0507: Polymer Chemistry
         40.0599: Chemistry, Other

Doc   **40.0501: Chemistry, General**
         40.0502: Analytical Chemistry
         40.0503: Inorganic Chemistry
         40.0504: Organic Chemistry
         40.0505: Medicinal/Pharmaceutical Chemistry
         40.0506: Physical and Theoretical Chemistry
         40.0507: Polymer Chemistry
         40.0599: Chemistry, Other

74222. Geological Sciences Programmes. This program group code corresponds to U.S. data reported for the following graduate programs in geology and related sciences:

Mas   **40.0601: Geology**
         40.0602: Geochemistry
         40.0603: Geophysics and Seismology
         40.0604: Paleontology
         40.0699: Geological and Related Sciences, Other

Doc   **40.0601: Geology**
         40.0602: Geochemistry
         40.0603: Geophysics and Seismology
         40.0604: Paleontology
         40.0699: Geological and Related Sciences, Other

74232. Physics Programmes. This program group code corresponds to U.S. data reported for the following graduate programs in physics:

Mas   **40.0801: Physics, General**
         40.0806: Nuclear Physics
         40.0807: Optics

40.0808: Solid State and Low-Temperature Physics
40.0899: Physics, Other

Doc   **40.0801: Physics, General**
40.0802: Chemical and Atomic/Molecular Physics
40.0806: Nuclear Physics
40.0807: Optics
40.0808: Solid State and Low-Temperature Physics
40.0899: Physics, Other

74242. Astronomy Programmes. This program group code corresponds to U.S. data reported for the following graduate programs in astronomy and astrophysics:

Mas   **40.0201: Astronomy**
40.0301: Astrophysics

Doc   **40.0201: Astronomy**
40.0301: Astrophysics

74252. Meteorology Programmes. This program group code corresponds to U.S. data reported for the following graduate program in atmospheric sciences and meteorology:

Mas   **40.0401: Atmospheric Sciences and Meteorology**

Doc   **40.0401: Atmospheric Sciences and Meteorology**

74262. Oceanography Programmes. This program group code corresponds to U.S. data reported for the following graduate program in oceanography:

Mas   **40.0702: Oceanography**

Doc   **40.0702: Oceanography**

74299. Other Natural Science Programmes. General programs in the physical sciences emphasizing no specific discipline, multidisciplinary programs, and a few specific programs in other science fields are offered at this level in the United States. This program group code as defined in ISCED corresponds to:

Mas   **30.0101: Biological and Physical Sciences**
30.0601: Systems Science and Theory
40.0101: Physical Sciences, General

40.0701: Metallurgy
4f `03: Earth and Planetary Sciences
40.0799: Miscellaneous Physical Sciences, Other
40.9999: Physical Sciences, Other

Doc   30.0101: Biological and Physical Sciences
      30.0601: Systems Science and Theory
      40.0701: Metallurgy
      40.0703: Earth and Planetary Sciences
      40.0799: Miscellaneous Physical Sciences, Other
      40.9999: Physical Sciences, Other

746. Mathematics and Computer Science Programmes

Data on both of these program Series are combined in this ISCED broad field, although they are reported separately within the United States. Graduate degrees in both the mathematical and computer fields prepare students for a variety of careers in research, industry, business, and government.

74601. General Programmes in Mathematics. This program group code should be inserted at level 7 (it appears at level 6) to report data accurately and consistently on U.S. graduate programs in mathematics, the majority of which do not specify a subfield concentration in the degree title. It corresponds to:

Mas   27.0101: Mathematics

Doc   27.0101: Mathematics

74611. Programmes in Statistics. This program group code corresponds to U.S. data reported for the following graduate programs in statistics:

Mas   27.0501: Mathematical Statistics

Doc   27.0501: Mathematical Statistics

74621. Programmes in Actuarial Science. Actuarial science programs are classified as a business application in the United States, since the field primarily prepares technical experts employed in the insurance and risk-assessment industries. This program group code corresponds to U.S. data reported for the following graduate programs in actuarial science:

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Mas **52.0802: Actuarial Science**

Doc No data currently reported.

74639. Other Programmes in Mathematics. Other mathematics programs for which graduate data are reported in the United States include:

Mas **27.0301: Applied Mathematics, General**
27.0302: Operations Research
27.0399: Applied Mathematics, Other
27.9999: Mathematics, Other
30.0801: Mathematics and Computer Science

Doc **27.0301: Applied Mathematics, General**
27.0302: Operations Research
27.0399: Applied Mathematics, Other
27.9999: Mathematics, Other

74641. Programmes in Computer Science. This program group code corresponds to U.S. data reported for the following graduate programs in computer and information sciences:

Mas **11.0101: Computer and Information Sciences, General**
11.0201: Computer Programming
11.0301: Data Processing Technology/Technician
11.0401: Information Sciences and Systems
11.0501: Computer Systems Analysis
11.0701: Computer Science
11.9999: Computer and Information Sciences, Other

Doc **11.0101: Computer and Information Sciences, General**
11.0401: Information Sciences and Systems
11.0501: Computer Systems Analysis
11.0701: Computer Science
11.9999: Computer and Information Sciences, Other

750. Medical Diagnostic and Treatment Programmes

The following listing corresponds to those U.S. program codes in these categories for which data at this level are reported. Some allied health programs are offered at the graduate level, reflecting the increasing complexity and knowledge requirements in these occupations as well as the need to prepare persons with expertise in the fields who can manage support operations within hospitals and other health care facilities. First-professional degrees in

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dentistry, medicine, and other health professions are reported at this level. As with law (see broad field 722), first-professional degrees in the health professions are primarily generalist in content. Specialization occurs during the internship, in post-degree residencies, and at the research degree level. Medical research degrees are the same as those in the sciences, the master's (MS, standing for "master of science," not surgery) and research doctorate (PhD). First-professional degrees use the term "doctor" in the title (MD, DDS, OD, DPM, PharmD, DC) but are not equivalent to research doctorates (or master's degrees, either) and should not be confused with advanced credentials in the medical sciences. Master's and doctorates in the health treatment fields, such as nursing, public health, rehabilitation, and others, may be practice or research oriented depending on the program and the goals of the student.

75002. Programmes in Public Health. This program group code should be inserted at level 7 (it appears only at level 6) in order to report data accurately and consistently for U.S. graduate programs in public health and related fields. It corresponds to:

Mas **51.0301: Community Health Liason**
51.2201: Public Health, General
51.2202: Environmental Health
51.2203: Epidemiology
51.2204: Health and Medical Biostatistics
51.2205: Health Physics/Radiologic Health
51.2206: Occupational Health and Industrial Hygiene
51.2207: Public Health Education and Promotion
51.2299: Public Health, Other

Doc **51.0301: Community Health Liason**
51.2201: Public Health, General
51.2202: Environmental Health
51.2203: Epidemiology
51.2204: Health and Medical Biostatistics
51.2206: Occupational Health and Industrial Hygiene
51.2207: Public Health Education and Promotion
51.2299: Public Health, Other

75006. Programmes in Medical Specialities. Professional medical education programs in the United States are first-professional programs and may be in either allopathic (MD) or osteopathic (DO) medicine. Likewise, some programs for physician's assistants (persons with independent diagnostic and treatment authority who serve alongside physicians) are offered at the graduate level, as are research programs in what are called the clinical sciences. The clinical sciences include those residency programs for physicians which result in the award of an academic degree; most residencies do not and are thus not reported as education statistics. ISCED code 75006 corresponds to:

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1PD   51.1201: Medicine (MD)
       51.1901: Osteopathic Medicine (DO)

Mas   51.0807: Physician Assistant
       51.1401: Medical Clinical Sciences (MS, PhD)

Doc   51.1401: Medical Clinical Sciences (MS, PhD)

75008. Rehabilitation Medicine Programmes. This program group code should be
inserted at level 7 (it appears at levels 5 and 6) to report data accurately and consistently for
U.S. graduate programs in the rehabilitation and therapeutic health fields. It corresponds to:

Mas   **51.2301: Art Therapy**
       51.2302: Dance Therapy
       51.2303: Music The.apy
       51.2306: Occupational Therapy
       51.2308: Physical Therapy
       51.2309: Recreational Therapy
       51.2310: Vocational Rehabilitation Counseling
       51.2399: Rehabilitation/Therapeutic Services, Other

Doc   *51.2308: Physical Therapy*
       51.2309: Recreational Therapy
       51.2310: Vocational Rehabilitation Counseling
       51.2399: Rehabilitation/Therapeutic Services, Other

75012. Programmes in Nursing. This program group code should be inserted at level 7
(it appears at levels 2, 3, 5, and 6) to report data accurately and consistently for U.S.
graduate programs in nursing. It corresponds to:

Mas   **51.1601: Nursing (R.N. Training)**
       51.1602: Nursing Administration
       51.1603: Nursing, Adult Health
       51.1604: Nursing Anesthetist
       51.1605: Nursing, Family Practice
       51.1606: Nursing, Maternal/Child Health
       51.1608: Nursing Science
       51.1609: Nursing, Pediatric
       51.1610: Nursing, Psychiatric/Mental Health
       51.1611: Nursing, Public Health
       51.1612: Nursing, Surgical
       51.1699: Nursing, Other

Doc   51.1601: Nursing (R.N. Training)
51.1602: Nursing Administration
51.1606: Nursing, Maternal/Child Health
51.1608: Nursing Science
51.1611: Nursing, Public Health
51.1612: Nursing, Surgical
51.1699: Nursing, Other

75017. Programmes in Medical X-Ray Technology. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in radiologic technology. It includes:

Mas   51.0907: Medical Radiologic Technology/Technician

Doc   No data currently reported.

75019. Other Programmes in Medical Diagnostic and Treatment Technology Except Dental Technology. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in medical diagnostic and treatment services other than radiologic technology (see 65017, above). It includes:

Mas   *51.0904: Emergency Medical Technology/Technician*
51.0999: Health and Medical Diagnostic and Treatment Services,
         Other

Doc   No data currently reported.

75030. Medical Technology Programmes. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in medical laboratory technology. It includes:

Mas   *51.1001: Blood Bank Technology/Technician*
51.1004: Medical Laboratory Technician
51.1005: Medical Technology
51.1099: Health and Medical Laboratory Technologies/
         Technicians, Other

Doc   *51.1005: Medical Technology*
51.1099: Health and Medical Laboratory Technologies/
         Technicians, Other

75042. Programmes in Dental and Stomatological Specialties. Professional dental education programs in the United States are first-professional programs. As with medicine (see 75006, above), research programs in what are called the dental clinical sciences are also offered, including those residency programs for dentists which result in the award of an academic degree; most residencies do not result in such awards and are thus not reported as education statistics. ISCED code 75042 corresponds to:

1PD 51.0401: Dentistry (DDS, DMD)

Mas 51.0501: Dental Clinical Sciences/Graduate Dentistry (MS, PhD)

Doc *51.0501: Dental Clinical Sciences/Graduate Dentistry (MS, PhD)*

75046. Other Programmes in Dental Services. This program group code should ' : inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in dental services. It includes:

Mas *51.0602: Dental Hygienist*
    51.0699: Dental Services, Other

Doc No data currently reported.

75052. Programmes in Pharmacy. U.S. professional pharmacy programs are currently undergoing a change from 5- or 6-year programs leading to a bachelor's degree (BPharm), which might or might not have been preceeded by a first bachelor's degree, to first-professional degree programs called "doctor of pharmacy" (PharmD). Data are thus now reported as for other first-professional degrees. Advanced programs for pharmacy administrators and research scientists are also offered. ISCED code 75052 corresponds to:

1PD 51.2001: Pharmacy (BPharm, PharmD)

Mas *51.2002: Pharmacy Administration and Pharmaceutics*
    51.2003: Medical Pharmacology and Pharmaceutical Sciences
    51.2099: Pharmacy, Other

Doc 51.2002: Pharmacy Administration and Pharmaceutics
    51.2003: Medical Pharmacology and Pharmaceutical Sciences
    51.2099: Pharmacy, Other

75062. Optometry Programmes. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in professional optometry and related services. Optometry is a first-professional

degree program in the U.S. ISCED code 75062 corresponds to:

1PD   **51.1701: Optometry (OD)**

Mas   *51.1899: Ophthalmic/Optometric Services, Other*

Doc   *51.1899: Ophthalmic/Optometric Services, Other*

75099. Other Medical Diagnostic and Treatment Programmes. A large number of U.S. health professions programs cannot be reported separately because there are no corresponding program group codes assigned in ISCED. They include:

1PD   **51.0101: Chiropractic (DC, DCM)**
          51.2101: Podiatry (DPM, DP, PodD)

Mas   **51.0201: Communication Disorders, General**
          51.0202: Audiology/Hearing Sciences
          51.0203: Speech-Language Pathology
          51.0204: Speech-Language Pathology and Audiology
          51.0299: Communication Disorders Sciences and Services, Other
          51.0801: Medical Assistant
          51.1199: Health and Medical Preparatory Programs, Other
          51.1301: Medical Anatomy
          51.1302: Medical Biochemistry
          51.1306: Medical Genetics
          51.1307: Medical Immunology
          51.1308: Medical Microbiology
          51.1309: Medical Molecular Biology
          51.1311: Medical Nutrition
          51.1312: Medical Pathology
          51.1313: Medical Physiology
          51.1399: Basic Medical Sciences, Other
          51.1501: Alcohol/Drug Abuse Counseling
          51.1502: Psychiatric/Mental Health Services Technician
          51.1503: Clinical and Medical Social Work
          51.1599: Mental Health Services, Other
          51.2701: Acupuncture and Oriental Medicine
          51.2703: Medical Illustrating
          51.2705: Psychoanalysis
          51.9999: Health Professions and Related Sciences, Other

Doc   *51.0201: Communication Disorders, General*
          51.0202: Audiology/Hearing Sciences
          51.0203: Speech-Language Pathology

51.0204: Speech-Language Pathology and Audiology
51.0299: Communication Disorders Sciences and Services, Other
51.1301: Medical Anatomy
51.1302: Medical Biochemistry
51.1306: Medical Genetics
51.1307: Medical Immunology
51.1308: Medical Microbiology
51.1309: Medical Molecular Biology
51.1310: Medical Neurobiology
51.1312: Medical Pathology
51.1313: Medical Physiology
51.1314: Medical Toxicology
51.1399: Basic Medical Sciences, Other
51.1599: Mental Health Services, Other
51.2701: Acupuncture and Oriental Medicine
51.2704: Naturopathic Medicine
51.9999: Health Professions and Related Sciences, Other

752. Trade, Craft and Industrial Programmes, n.e.c.

This ISCED broad field should be inserted at level 7 in order to report data accurately and consistently for U.S. graduate programs in the food processing and scientific technologies, which are classified under it.

75212. Programmes in Food Processing. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs preparing food processing industry managers. It corresponds to:

Mas   *01.0401: Agricultural and Food Products Processing Operations and Management*

Doc   *01.0401: Agricultural and Food Products Processing Operations and Management*

75284. Scientific Laboratory Technology Programmes. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in scientific technology. It corresponds to:

Mas   *41.0101: Biological Technology/Technician*
         41.9999: Science Technologies/Technicians, Other

Doc   *41.0101: Biological Technology/Technician*

754. Engineering Programmes

Engineering and some engineering technology programs are offered at the graduate level in the United States. At the master's degree level such programs may be either practice or research oriented; doctoral programs are typically research oriented.

75402. Programmes in Surveying. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in surveying. It corresponds to:

Mas   **15.1102: Surveying**

Doc   *15.1102: Surveying*

75412. Chemical Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in chemical engineering and related fields. It includes:

Mas   **14.0601: Ceramic Sciences and Engineering**
       14.0701: Chemical Engineering
       14.3201: Polymer/Plastics Engineering

Doc   **14.0601: Ceramic Sciences and Engineering**
       14.0701: Chemical Engineering
       14.3201: Polymer/Plastics Engineering

75416. Civil Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in civil engineering and related fields. It includes:

Mas   **14.0801: Civil Engineering, General**
       14.0804: Transportation and Highway Engineering
       14.0899: Civil Engineering, Other
       14.2401: Ocean Engineering
       15.0201: Civil Engineering/Civil Technology/Technician
       15.1001: Construction/Building Technology/Technician

Doc   **14.0801: Civil Engineering, General**
       14.2401: Ocean Engineering

75422. Electrical and Electronics Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in electrical and electronics engineering and related fields. It includes:

Mas   14.0901: Computer Engineering
       14.1001: Electrical, Electronics and Communications
               Engineering
       15.0301: Computer Engineering Technology/Technician
       15.0403: Electromechanical Technology/Technician
       15.0404: Instrumentation Technology/Technician

Doc   14.0901: Computer Engineering
       14.1001: Electrical, Electronics and Communications
               Engineering
       15.0404: Instrumentation Technology/Technician

75426. Industrial Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in industrial engineering and related fields. It includes:

Mas   14.1701: Industrial/Manufacturing Engineering
       14.3001: Engineering/Industrial Management
       15.0603: Industrial/Manufacturing Technology/Technician
       15.0699: Industrial Production Technologies/Technicians,
               Other
       15.0701: Occupational Safety and Health Technology/Technician
       15.0702: Quality Control Technology/Technician
       15.0799: Quality Control and Safety Technologies/Technicians,
               Other

Doc   14.1701: Industrial/Manufacturing Engineering
       14.3001: Engineering/Industrial Management
       15.0603: Industrial/Manufacturing Technology/Technician

75432. Metallurgical Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in metallurgical engineering and related fields. It includes:

Mas   14.2001: Metallurgical Engineering

Doc   14.2001: Metallurgical Engineering

75436. Mining Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in mining engineering and related fields. It includes:

Mas   14.1501: Geological Engineering
14.2101: Mining and Mineral Engineering

Doc   14.1501: Geological Engineering
14.2101: Mining and Mineral Engineering

75442. Mechanical Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in mechanical engineering and related fields. It includes:

Mas   14.0201: Aerospace, Aeronautical, and Astronautical Engineering
14.1901: Mechanical Engineering
14.2201: Naval Architecture and Marine Engineering
15.0801: Aeronautical and Aerospace Engineering Technology/
Technician
15.0803: Automotive Engineering Technology/Technician
15.0805: Mechanical Engineering/Mechanical Technology/
Technician
15.0899: Mechanical Engineering-Related Technologies/
Technicians, Other
15.1103: Hydraulics Technology/Technician

Doc   14.0201: Aerospace, Aeronautical, a id Astronautical Engineering
14.1901: Mechanical Engineering
14.2201: Naval Architecture and Marine Engineering

75453. Agricultural Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in agricultural engineering. It includes:

Mas   14.0301: Agricultural Engineering

Doc   14.0301: Agricultural Engineering

75463. Forestry Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. program data which cannot be disaggregated from data reported under forestry (see 76262). Consequently, no U.S. program data exist.

75499. Other Engineering Programmes. This program group code as defined in ISCED corresponds to data reported for a wide variety of programs for which no specific ISCED assignment exists. These include:

Mas   14.0101: Engineering, General
          14.0501: Bioengineering and Biomedical Engineering
          14.1101: Engineering Mechanics
          14.1201: Engineering Physics
          14.1301: Engineering Science
          14.1401: Environmental/Environmental Health Engineering
          14.1601: Geophysical Engineering
          14.1801: Materials Engineering
          14.2301: Nuclear Engineering
          14.2501: Petroleum Engineering
          14.2701: Systems Engineering
          14.2801: Textile Sciences and Engineering
          14.3101: Materials Science
          14.9999: Engineering, Other
          15.0304: Laser and Optical Technology/Technician
          15.0506: Water Quality and Wastewater Treatment Technology/
             Technician
          15.0507: Environmental and Pollution Control Technology/
             Technician
          15.0599: Environmental Control Technologies/Technicians, Other
          15.1101: Engineering-Related Technology/Technician, General
          15.9999: Engineering-Related Technologies/Technicians, Other
          41.0204: Industrial Radiologic Technology/Technician

Doc   14.0101: Engineering, General
          14.0501: Bioengineering and Biomedical Engineering
          14.1101: Engineering Mechanics
          14.1201: Engineering Physics
          14.1301: Engineering Science
          14.1401: Environmental/Environmental Health Engineering
          14.1601: Geophysical Engineering
          14.1801: Materials Engineering
          14.2301: Nuclear Engineering
          14.2501: Petroleum Engineering
          14.2701: Systems Engineering
          14.2801: Textile Sciences and Engineering
          14.3101: Materials Science
          14.9999: Engineering, Other
          15.9999: Engineering-Related Technologies/Technicians,

758. Architectural and Town-Planning Programmes

The basic U.S. professional degree in architecture awarded at the graduate level is the master's degree in architecture (MArch). This degree, and others awarded in related fields, may lead to professional licensure and practice or to further study culminating in a research doctorate (DArch, PhD).

75801. General Programmes in Architecture. This program group code should be inserted at level 7 (it appears at levels 5 and 6) to report data accurately and consistently for U.S. graduate programs in architecture. It corresponds to:

  Mas   04.0201: Architecture

  Doc   04.0201: Architecture

75802. Programmes in Structural Architecture. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in architectural engineering and related fields. It includes:

  Mas   04.0501: Interior Architecture
  **   14.0401: Architectural Engineering**
  *   14.0803: Structural Engineering*
  *   15.0101: Architectural Engineering Technology/Technician*

  Doc   *04.0501: Interior Architecture*

75812. Programmes in Landscape Architecture. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in landscape architecture. It includes:

  Mas   04.0601: Landscape Architecture

  Doc   *04.0601: Landscape Architecture*

75822. Programmes in Town or Community Planning. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in urban planning and related fields. It includes:

Mas 04.0301: City/Urban, Community, and Regional Planning
     04.0401: Architectural Environmental Design
     04.0701: Architectural Urban Design and Planning

Doc 04.0301: City/Urban, Community, and Regional Planning
     04.0401: Architectural Environmental Design

75899. Other Programmes in Architecture and Town Planning. This code should be inserted at level 7 to report accurately U.S. data on architectural and related programs not elsewhere classified. It corresponds to:

Mas 04.9999: Architecture and Related Programs, Other
     30.1201: Historic Preservation, Conservation, and Architectural History

Doc 04.9999: Architecture and Related Programs, Other

762. Agricultural, Forestry and Fishery Programmes

This broad field at level 7 includes first-professional programs in veterinary medicine and graduate programs in the veterinary clinical sciences (see the explanations under 75002 and 75042, above, which are similar). Graduate master's degree programs in professional fields such as forestry are often practice oriented, while graduate degree programs in the agricultural sciences are primarily research oriented.

76201. General Programmes in Agriculture. This program group code should be inserted at level 7 (it appears at level 6) in order to report data accurately and consistently for U.S. graduate programs in agriculture whose titles do not identify a specialization. It includes:

Mas 01.C101: Agricultural Business and Management, General
     01.0301: Agricultural Production Workers and Managers,
        General
     02.0101: Agriculture/Agricultural Sciences, General

Doc 01.0101: Agricultural Business and Management, General
     02.0101: Agriculture/Agricultural Sciences, General

76203. Animal Husbandry Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in animal husbandry, agricultural animal sciences, and related fields. It includes:

Mas 01.0302: *Agricultural Animal Husbandry and Production*
       Management
     01.0303: *Aquaculture Operations and Production Management*
     01.0399: *Agricultural Production Workers and Managers, Other*
     02.0201: Animal Sciences, General
     02.0202: *Agricultural Animal Breeding and Genetics*
     02.0203: *Agricultural Animal Health*
     02.0204: *Agricultural Animal Nutrition*
     02.0205: *Agricultural Animal Physiology*
     02.0206: Dairy Science
     02.0209: Poultry Science
     02.0299: Animal Sciences, Other

Doc 01.0303: *Aquaculture Operations and Production Management*
     02.0201: Animal Sciences, General
     02.0202: *Agricultural Animal Breeding and Genetics*
     02.0203: *Agricultural Animal Health*
     02.0204: *Agricultural Animal Nutrition*
     02.0205: *Agricultural Animal Physiology*
     02.0206: Dairy Science
     02.0209: Poultry Science
     02.0299: Animal Sciences, Other

76206. Horticulture Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in horticulture science and the provision of various horticultural services. It corresponds to:

Mas **01.0601: Horticulture Services Operations and Management,**
       General
     01.0603: Ornamental Horticulture Operations and Management
     02.0403: Horticulture Science ·

Doc 01.0601: *Horticulture Services Operations and Management,*
       General
     01.0603: *Ornamental Horticulture Operations and Management*
     01.0601: *Horticulture Services Operations and Management,*
       Other
     02.0403: Horticulture Science

76208. Crop Husbandry Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in crop production and domesticated plant sciences. It corresponds to:

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Mas   *01.0304: Crop Production Operations and Management*
       02.0401: Plant Sciences, General
       02.0402: Agronomy and Crop Science
       02.0405: Plant Breeding and Genetics
       02.0406: Agricultural Plant Pathology
       02.0408: Plant Protection (Pest Management)
       02.0409: Range Science and Management
       02.0499: Plant Sciences, Other

Doc   *01.0304: Crop Production Operations and Management*
       02.0401: Plant Sciences, General ·
       02.0402: Agronomy and Crop Science
       02.0405: Plant Breeding and Genetics
       02.0406: Agricultural Plant Pathology
       02.0407: Agricultural Plant Physiology
       02.0408: Plant Protection (Pest Management)
       02.0409: Range Science and Management
       02.0499: Plant Sciences, Other

76212. Agricultural Economics Programmes. This program group code as defined in ISCED includes various agricultural business-related subjects as well as agricultural economics. The corresponding U.S. graduate program data are reported under:

Mas   **01.0102: Agricultural Business/Agribusiness Operations**
       01.0103: Agricultural Economics
       01.0104: Farm and Ranch Management
       01.0199: Agricultural Business and Management, Other

Doc   **01.0103: Agricultural Economics**

76222. Food Sciences and Technology Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in food science and technology. It includes:

Mas   **02.0301: Food Science and Technology**

Doc   **02.0301: Food Science and Technology**

76226. Soil and Water Sciences Programmes. ISCED defines this program group code as referring to soil and water programs of different types at different levels. U.S. water resources programs pertaining to agriculture cannot be disaggregated from water resources programs reported under engineering and related technologies (see broad field 754) or

elsewhere in the agriculture field. Corresponding U.S. graduate program data for soil sciences are reported under:

Mas 02.0501: Soil Sciences

Doc 02.0501: Soil Sciences

76232. Programmes in Veterinary Medicine. Veterinary medicine is a first-professional program in the United States. This program group code as defined in ISCED corresponds to data reported for programs preparing veterinarians and for programs representing advanced degrees in those cases where veterinary medicine residencies result in the award of higher degrees. It includes:

1PD 51.2401: Veterinary Medicine (DVM)

Mas 51.2501: Veterinary Clinical Sciences (MS, PhD)

Doc 51.2501: Veterinary Clinical Sciences (MS, PhD)

76249. Other Programmes in Agriculture. A number of other graduate agriculture-related programs are not assigned specific ISCED codes and should be reported here. They include:

Mas *01.0201: Agricultural Mechanization, General*
01.0299: Agricultural Mechanization, Other
01.0701: International Agriculture
01.9999: Agricultural Business and Production, Other
02.9999: Agriculture/Agricultural Sciences, Other

Doc *01.0299: Agricultural Mechanization, Other*
01.9999: Agricultural Business and Production, Other
02.9999: Agriculture/Agricultural Sciences, Other

76262. Programmes in Forestry and Forest-Product Techniques. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in various forestry specializations and wildlife management. It includes:

Mas **03.0401: Forest Harvesting and Production Technology/**
Technician
03.0499: Forest Production and Processing, Other
03.0501: Forestry, General
03.0502: Forestry Sciences
03.0506: Forest Management

03.0509: Wood Science and Pulp/Paper Technology
03.0599: Forestry and Related Sciences, Other
03.0601: Wildlife and Wildlands Management

Doc 03.0401: Forest Harvesting and Production Technology/
             Technician
     03.0501: Forestry, General
     03.0502: Forestry Sciences
     03.0506: Forest Management
     03.0509: Wood Science and Pulp/Paper Technology
     03.0599: Forestry and Related Sciences, Other
     03.0601: Wildlife and Wildlands Management

76272. Programmes in Fishery Science and Technology. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in fisheries science and the management of fishing operations. It includes:

Mas 03.0301: Fishing and Fisheries Sciences and Management

Doc 03.0301: Fishing and Fisheries Sciences and Management

766. Home Economics (Domestic Science) Programmes

Only programs corresponding to the ISCED definition of home economics, and for which data are reported at this level, are included below. (See broad field 566 for an explanation of U.S. reporting practices in this field.) U.S. graduate home economics programs prepare students for employment as researchers, teachers, independent consultants, and as professional staff in corporations and service organizations.

76601. General Programmes in Home Economics. This program group code should be inserted at level 7 (it appears only at level 6) to report data accurately and consistently for U.S. graduate programs in home economics which do not specify a subfield in the title. It includes:

Mas 19.0101: Home Economics, General

Doc 19.0101: Home Economics, General

76612. Programmes in Household and Consumer Foods Research; Nutrition. This program group code as defined in ISCED includes institutional food services as well as home consumer and nutrition programs. U.S. graduate program data are reported under:

Mas   19.0401: Family Resource Management Studies
      19.0402: Consumer Economics and Science
      19.0499: Family/Consumer Resource Management, Other
      19.0501: Foods and Nutrition Studies, General
      19.0502: Foods and Nutrition Science
      19.0503: Dietetics/Human Nutritional Services
      19.0599: Foods and Nutrition Studies, Other
      20.0401: Institutional Food Workers and Administrators,
             General

Doc   *19.0401: Family Resource Management Studies*
      19.0402: Consumer Economics and Science
      19.0499: Family/Consumer Resource Management, Other
      19.0501: Foods and Nutrition Studies, General
      19.0502: Foods and Nutrition Science
      19.0503: Dietetics/Human Nutritional Services
      19.0599: Foods and Nutrition Studies, Other

76622. Programmes in Home Economics with Emphasis on Child Care. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in child and family studies and the training of child care professionals. It includes:

Mas   **19.0701: Individual and Family Development Studies, General**
      19.0706: Child Growth, Care, and Development Studies
      19.0799: Individual and Family Development Studies, Other
      20.0201: Child Care and Guidance Workers and Managers,
             General
      20.0203: Child Care Services Manager

Doc   **19.0701: Individual and Family Development Studies, General**
      19.0706: Child Growth, Care, and Development Studies
      19.0799: Individual and Family Development Studies, Other
      20.0203: Child Care Services Manager

76632. Programmes in Household Arts. This program group code as defined in ISCED includes both housing/interiors studies and clothing and textile programs. Corresponding U.S. graduate programs for which data are reported include:

Mas   **19.0601: Housing Studies, General**
      19.0699: Housing Studies, Other
      19.0901: Clothing/Apparel and Textile Studies
      20.0501: Home Furnishings and Equipment Installers and

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Consultants, General

Doc   *19.0601: Housing Studies, General*
       19.0901: Clothing/Apparel and Textile Studies

76699. Other Home Economics Programmes. This program group code as defined in ISCED corresponds to graduate program data reported on a variety of U.S. home economics fields, including:

Mas   *19.0202: Home Economics Communications*
       19.0301: Family and Community Studies
       19.0704: Family Life and Relations Studies
       19.9999: Home Economics, Other
       . *.0601: Custodial, Housekeeping and Home Services Workers
           and Managers, General*

Doc   *19.0301: Family and Community Studies*
       19.0704: Family Life and Relations Studies
       19.9999: Home Economics, Other
       *20.0601: Custodial, Housekeeping and Home Services Workers
           and Managers, General*
       20.9999: Vocational Home Economics, Other

770. Transport and Communications Programmes

This ISCED broad field should be inserted at level 7 in order to report data consistently for U.S. graduate degree programs in certain fields defined in ISCED as transportation and communications. These include graduate programs in aviation.

77002. Air Crew Programmes. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs preparing flight crew for long-range commercial airlines. Standards for such crew positions differ from other commercial aviation in requiring extensive familiarity with engineering technology, law and regulations, navigation, management, and psychology. ISCED code 77002 includes:

Mas   *49.0102: Aircraft Pilot and Navigator (Professional)*

Doc   No data currently reported.

77029. Other Communications Programmes. This program group code should be

inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs preparing various types of aviation management personnel not elsewhere classified. ISCED code 77029 includes:

Mas 49.0104: Aviation Management
49.9999: Transportation and Materials Moving Workers,
Other

Doc No data currently reported.

778. Service Programmes

This ISCED broad field should be inserted at level 7 in order to report data consistently for U.S. graduate degree programs in certain fields classified under this ISCED location. These include programs preparing professionals in the hospitality, tourism, and marketing fields.

77822. Hotel and Restaurant Services Programmes. This program group code should be inserted at level 7 (it appears only at level 3) to report data accurately and consistently for U.S. graduate programs in restaurant management. It corresponds to:

Mas 12.0504: Food and Beverage/Restaurant Operations Manager

Doc No data currently reported.

77862. Retailing Programmes. This program group code should be inserted at level 7 (it appears only at level 3) to report data accurately and consistently for U.S. graduate retail services programs. It corresponds to:

Mas 08.0102: Fashion Merchandising
08.9999: Marketing Operations/Marketing and Distribution,
Other

Doc 08.0102: Fashion Merchandising

77872. Tourism and Travel Services Programmes. This program group code should be inserted at level 7 (it appears only at level 3) to report data accurately and consistently for U.S. graduate programs in tourism. It corresponds to:

Mas 08.1104: Tourism Promotion Operations

Doc No data currently reported. ,

784. Programmes in Mass Communications and Documentation

This ISCED broad field code includes the journalism and communications fields, library science and related fields, and miscellaneous technical programs associated with audiovisual communications. Each of these is reported separately in the United States but are combined for ISCED reporting purposes. Graduate programs in these fields prepare students for professional employment and research and teaching positions.

78402. Journalism Programmes. This program group code as defined in ISCED corresponds to graduate data reported for U.S. programs related to journalism and mass communications, including:

Mas 09.0401: Journalism
      09.0403: Mass Communications
      09.0499: Journalism and Mass Communications, Other

Doc 09.0401: Journalism
      09.0403: Mass Communications

78404. Programmes in Radio and Television Broadcasting. This program group code as defined in ISCED corresponds to graduate data reported for U.S. programs related to ι ·oadcast communications, including:

Mas 09.0402: Broadcast Journalism
      09.0701: Radio and Television Broadcasting
      10.0104: Radio and Television Broadcasting Technology/
                Technician

Doc *09.0402: Broadcast Journalism*
      09.0701: Radio and Television Broadcasting
      10.0104: Radio and Television Broadcasting Technology/
                Technician

78407. Public Relations Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs under the following code:

Mas **09.0501: Public Relations and Organizational Communications**

Doc No data currently reported.

78409. Other Programmes in Communications Arts. This program group code as defined in ISCED corresponds to graduate data reported for U.S. communications programs not elsewhere classified, including:

    Mas   09.0101: Communications, General
            09.9999: Communications, Other
            10.0199: Communications Technologies/Technicians, Other

    Doc   09.0101: Communications, General
            09.9999: Communications, Other

78422. Library Science Programmes. This program group code as defined in ISCED corresponds to graduate data reported for U.S. programs in library science, including:

    Mas   25.0101: Library Science/Librarianship
            25.9999: Library Science, Other

    Doc   25.0101: Library Science/Librarianship
            25.9999: Library Science, Other

78425. Programmes for Museum Curators and Administrators. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in museum studies. U.S. museum curators and administrators generally possess degrees in either an academic discipline related to the field of curatorial responsibility or a degree in a support field such as management, law, education, or public relations. Museum studies programs prepare entry-level professional curatorial staff and serve as adjuncts to parallel degree programs in a discipline. ISCED code 68425 includes:

    Mas   30.1401: Museology/Museum Studies

    Doc   No data currently reported.

789. Other Education at the Third Level, Second Stage of the Type that Leads to a Post-Graduate University Degree or the Equivalent

ISCED uses this broad field to report data on a variety of classified programs as well as "other" or "unknown" programs. The identifiable program classifications assigned here include social work, community organization, R.O.T.C. programs, public safety (fire and law enforcement) programs, physical education and recreation, and natural resources and conservation. Data for these fields reported at level 7 refer to graduate programs preparing students for professional careers in research or practice.

78912. Programmes in Criminal Justice. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in law enforcement other than criminology (see 78913, below). It includes:

Mas 43.0102: Corrections/Correctional Administration
43.0103: Criminal Justice/Law Enforcement Administration
43.0104: Criminal Justice Studies
43.0106: Forensic Technology/Technician
43.0107: Law Enforcement/Police Science
43.0109: Security and Loss Prevention Services
43.0199: Criminal Justice and Corrections, Other

Doc *43.0103: Criminal Justice/Law Enforcement Administration*
43.0104: Criminal Justice Studies

78913. Programmes in Criminology. This program group code as defined in ISCED corresponds to graduate data reported for U.S. programs in criminology, which is an academic discipline in the social sciences as well as a title used to refer to some professional police training. (At the graduate level criminology refers to the research field.) It includes:

Mas 45.0401: Criminology

Doc *45.0401: Criminology*

78915. Fire-Protection Programmes. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in fire protection services. It includes:

Mas *43.0201: Fire Protection and Safety Technology/Technician*
43.0299: Fire Protection, Other

Doc No data currently reported.

78919. Other Civil Security and Military Programmes. There are no U.S. data known to correspond to this program group code which are currently being reported.

78932. Social Welfare Programmes. This program group code as defined in ISCED is the place to report graduate data on a variety of U.S. social and community assistance programs, including social work. As defined, it corresponds to:

Mas 19.0703: Family and Marriage Counseling
     19.0705: Gerontological Services
     44.0201: Community Organization, Resources and Services
     44.0701: Social Work

Doc 19.0703: Family and Marriage Counseling
     44.0201: Community Organization, Resources and Services
     44.0701: Social Work

78942. ̕ ogrammes in Vocational Counseling. There are no U.S. program data corresponding to this program group code, at this level, that can be disaggregated from codes reported elsewhere (see codes 75099 and 78932).

78952. Programmes in Environmental Studies. This program group code as defined in ISCED corresponds to graduate data reported for U.S. programs in environmental science and related natural resources conservation fields. It includes:

Mas 03.0101: Natural Resources Conservation, General
     03.0102: Environmental Science/Studies
     03.0201: Natural Resources Management and Policy
     03.0203: Natural Resources Law Enforcement and Protective
            Services
     03.9999: Conservation and Renewable Natural Resources,
            Other

Doc 03.0101: Natural Resources Conservation, General
     03.0102: Environmental Science/Studies
     03.9999: Conservation and Renewable Natural Resources,
            Other

78962. Programmes in Physical Education. This program group code is the appropriate place to report graduate data on all U.S. physical education and related recreation programs that do not have to do with teacher education. As defined, it corresponds to:

Mas 31.0101: Parks, Recreation and Leisure Studies
     31.0301: Parks, Recreation and Leisure Facilities
            Management
     31.0501: Health and Physical Education, General
     31.0503: Athletic Training and Sports Medicine
     31.0504: Sport and Fitness Administration/Management
     31.0505: Exercise Sciences/Physiology and Movement Studies
     31.0506: Socio-Psychological Sports Studies

31.0599: Health and Physical Education/Fitness, Other
31.9999: Parks, Recreation, Leisure and Fitness Studies,
        Other

Doc   31.0101: Parks, Recreation and Leisure Studies
31.0301: Parks, Recreation and Leisure Facilities
        Management
31.0501: Health and Physical Education, General
31.0505: Exercise Sciences/Physiology and Movement Studies
*31.9999: Parks, Recreation, Leisure and Fitness Studies,
        Other*

78999. Other Programmes of Education, n.e.c. This program group code as defined in ISCED corresponds to graduate data reported for the following U.S. programs which are classified nowhere else, including:

Mas   **30.1101: Gerontology**
30.1501: Science, Technology, and Society
30.9999: Multi/Interdisciplinary Studies, Other

Doc   *30.1501: Science, Technology, and Society*
30.9999: Multi/Interdisciplinary Studies, Other

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CHAPTER 10

Crosswalking Data at Level 9:
Education Not Definable by Level

ISCED level 9 corresponds to all U.S. educational program activity that is offered without academic credit for purposes of self-improvement, enrichment, job-related training, or other incentives. Such programs can be offered at any educational level and by a tremendous variety of providers. For these and other reasons it is difficult to track this field of educational activity, and U.S. data are not regularly collected. Certain CIP codes are assigned that correspond to ISCED level 9, and they are classified here. These CIP codes are used to report noncredit and leisure program data when special surveys collect those data.

901. General Programmes

This broad field code is appropriate for reporting data on basic skills programs that possess no specific application.

90100. General Programmes. Report any data that might be collected using CIP code 32.0101: *Basic Skills, General.*

914. Programmes in Teacher Training Including Training for Extension and Other Fields of Non-Formal Education

In the United States, teachers who work as formally licensed instructional providers are required to have completed one of the education programs listed under ISCED levels 5-7 or one of the other listed programs, if they are alternatively certified. Persons who may provide instruction on an informal basis are not uniformly regulated in the United States, nor are there formal programs to train such informal instructors.

91416. Education Science and Teacher Training for Work in Adult Education. No regularly collected U.S. data correspond to this program group code (see broad fields 514, 614, and 714 for reporting program data in adult education).

91499. Other Programmes in Teacher Training. No regularly collected U.S. data correspond to this program group code (see broad fields 514, 614 and 714 for reporting teacher education program data).

918. Fine and Applied Arts Programmes

Any data reported under this broad field will be for informal, noncredit programs in art only.

91810. Programmes in Visual and Plastic Arts. Report any data that might be collected using CIP code 36.0110: *Art*.

91812. Programmes in Handicrafts. Report any data that might be collected using CIP code 36.0102: *Handicrafts and Model-Making*.

91822. Programmes in Music. Report any data that might be collected using CIP code 36.0115: *Music*.

91832. Programmes in Drama. Report any data that might be collected using CIP code 36.0117: *Theatre*.

91899. Other Fine and Applied Arts Programmes. The only U.S. program code which corresponds to this program group code is CIP code 36.0114: *Dancing*.

922. Humanities Programmes

Any data reported here will only be for informal or noncredit programs in subjects pertaining to the humanities fields.

92215. Programmes in a "Foreign" or Second Language and Its Literature. No regularly collected U.S. data correspond to this program group code.

92221. Programmes in "Dead" Languages and Their Literature. No regularly collected U.S. data correspond to this program group code.

92251. Programmes in History. No regularly collected U.S. data correspond to this program group code.

92261. Programmes in Archaeology. No regularly collected U.S. data correspond to this program group code.

92299. Other Humanities Programmes. The only U.S. program codes which correspond to this program group code are CIP codes 36.0116: *Reading* and 36.0118: *Writing*.

926. Religion and Theology Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to religion, including personal exploration.

92600. Religion and Theology Programmes. No regularly collected U.S. data correspond to this program group code.

930. Social and Behavioural Science Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to the social science fields.

93012. Programmes in Economics. No regularly collected U.S. data correspond to this program group code.

93022. Programmes in Political Science. Report any data that might be collected using CIP code 33.0101: *Citizenship Activities, General*.

93032. Programmes in Sociology. Report any data that might be collected using CIP code 33.0103: *Community Awareness*.

93052. Programmes in Psychology. Report any data that might be collected using the following CIP codes:

    37.0101: *Self-Awareness and Personal Assessment*
    37.0102: *Stress Management and Coping Skills*
    37.0103: *Personal Decision-Making Skills*
    37.0104: *Self-Esteem and Values Clarification*
    37.0199: *Personal Awareness and Self-Improvement, Other*

93062. Programmes in Geography. Report any data that might be collected using CIP code 36.0109: *Travel and Exploration*.

93099. Other Programmes in Social and Behavioural Science. The only U.S. program code which corresponds to this program group code is CIP code 33.0199: *Citizenship Activities, Other.*

934. Commercial, Clerical, Business and Public Administration Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to business skills.

93404. Shorthand-Typing (Secretarial) Programmes. No regularly collected U.S. data correspond to this program group code.

93408. Clerical Programmes. No regularly collected U.S. data correspond to this program group code.

93438. Programmes in Labour Studies Including Personnel Administration. No regularly collected U.S. data correspond to this program group code.

93439. Other Commercial, Clerical, Business and Public Administration Programmes. Report any data that might be collected using the following CIP codes:

       32.0105: *Job Seeking/Changing Skills*
       32.0107: *Career Exploration/Awareness Skills*
       33.0104: *Community Involvement*
       35.0103: *Business and Social Skills*

938. Programmes in Law

Any data reported here will be only for informal or noncredit programs in subjects pertaining to general legal knowledge and skills.

93800. Programmes in Law. Report any data that might be collected using CIP code 33.0102: *American Citizenship Education.*

942. Natural Science Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to the sciences.

94202. Biological Science Programmes. No regularly collected U.S. data correspond to this program group code.

94222. Geological Science Programmes. No regularly collected U.S. data correspond to this program group code.

94232. Physics Programmes. No regularly collected U.S. data correspond to this program group code.

94242. Astronomy Programmes. No regularly collected U.S. data correspond to this program group code.

94299. Other Natural Science Programmes. Report any data that might be collected using CIP code 36.0106: *Nature Appreciation*.

946. Programmes in Computer Science

Any data reported here will be only for informal or noncredit programs in subjects pertaining to basic computer awareness and skills.

94600. Programmes in Computer Science. Report any data that might be collected using CIP code 32.0104: *Computational Skills* and 36.0113: *Computer Games and Programming Skills*.

950. Health-Related Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to basic health awareness and skills.

95018. Nursing and Other Medical Auxiliary Programmes. No regularly collected U.S. data correspond to this program group code (refer to broad fields 550, 650 and 750 for

reporting nursing program data).

95099. Other Health-Related Programmes. Report any data that might be collected using the following CIP codes:

> 34.0102: *Birthing and Parenting Knowledge and Skills*
> 34.0103: *Personal Health Improvement and Maintenance*
> 34.0104: *Addiction Prevention and Treatment*
> 34.0199: *Health-Related Knowledge and Skills, Other*

952. Trade, Craft and Industrial Programmes, n.e.c.

Any data reported here will be only for informal or noncredit programs in subjects pertaining to home improvement and related do-it-yourself skills.

95200. Trade, Craft and Industrial Programmes, n.e.c. Report any data that might be collected using CIP code 36.0105: *Home Maintenance and Improvement.*

954. Engineering Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to technology.

95400. Engineering Programmes. No regularly collected U.S. data correspond to this program group code (refer to broad fields 554, 654 and 754 for reporting data on formal programs in engineering and engineering technology).

958. Architectural and Town Planning Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to architectural appreciation (refer to broad fields 558, 658 and 758 for reporting data on formal programs in these fields).

95810. Architectural Programmes. No regularly collected U.S. data correspond to this program group code.

95822. Town or Community Planning Programmes. No regularly collected U.S. data correspond to this program group code.

962. Agricultural, Forestry and Fishery Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to activities related to the formal agriculture programs listed under broad fields 562, 662 and 762.

96202. Programmes in Agriculture. Report any data that might be collected using CIP code 36.0107: *Pet Ownership and Care.*

96262. Forestry and Forest Products Technology Programmes. No regularly collected U.S. data correspond to this program group code.

96272. Fishery Programmes. No regularly collected U.S. data correspond to this program group code.

966. Home Economics (Domestic Science) Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to activities related to the formal home economics programs listed under broad fields 566, 666 and 766.

96604. Programmes with Emphasis on Dressmaking and Needlecrafts. Report any data that might be collected using CIP code 20.0103: *Clothing and Textiles.*

96612. Programmes with Emphasis on Household Food Management and Nutrition. Report any data that might be collected using CIP codes 20.0104: *Consumer Education* and 20.0108: *Food and Nutrition.*

96622. Programmes with Emphasis on Child Care. Report any data that might be collected using CIP codes 20.0102: *Child Development, Care and Guidance* and 20.0107: *Family Living and Parenthood.*

96699. Other Home Economics Programmes. Report any data that might be collected using the following CIP codes:

>20.0101: *Comprehensive Consumer and Homemaking Education*
>20.0105: *Exploratory Homemaking*
>20.0106: *Family/Individual Health*
>20.0109: *Home Management*
>20.0110: *Housing, Home Furnishings and Equipment*
>20.0199: *Consumer and Homemaking Education, Other*
>36.0112: *Cooking and Other Domestic Skills*

970. Transport and Communications Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to activities related to the transportation programs listed under broad fields 570, 670 and 770.

97000. Transport and Communications Programmes. No regularly collected U.S. data correspond to this program group code.

978. Service Trades Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to activities related to the service industries programs listed under broad fields 578, 678 and 778.

97800. Service Trades Programmes. No regularly collected U.S. data correspond to this program group code.

984. Programmes in Mass Communication and Documentation

Any data reported here will be only for informal or noncredit programs in subjects pertaining to the communications programs listed under broad fields 584, 684 and 784.

98400. Programmes in Mass Communication and Documentation. No regularly collected U.S. data correspond to this program group code.

989. Other Education Not Definable by Level

Any data reported here will be only for informal or noncredit programs in subjects pertaining to the program topics listed under broad fields 589, 689 and 789.

98962. Programmes in Physical Education. Report any data that might be collected using CIP code 36.0108: *Sports and Exercise.*

98999. Other Education Not Definable by Level, n.e.c. Report any data that might be collected using the following CIP codes:

32.0199: *Basic Skills, Other*
35.0101: *Interpersonal and Social Skills, General*
35.0102: *Interpersonal Relationships Skills*
35.0199: *Interpersonal and Social Skills, Other*
36.0101: *Leisure and Recreational Activities, General*
36.0103: *Board, Card and Role-Playing Games*
36.0111: *Collecting*
36.0199: *Leisure and Recreational Activities, Other*

APPENDIX

Master Crosswalk of U.S. and ISCED Codes

USING THE MASTER CROSSWALK

The master crosswalk matrix is subdivided into eight sections corresponding to each ISCED Level. Each section is organized by the ISCED broad codes contained within it, with the program group codes listed under each broad code in numerical order. The titles of these ISCED codes are not given in the appendix since they have been presented in chapters 3-10 and are known to users familiar with the international system. To the right of each ISCED code, in numerical order, are presented the U.S. program codes corresponding to it. These will be either CCD or CIP codes, depending on the educational level. At the top of each section are listed the CCD or IPEDS level codes corresponding to the ISCED Level indicated.

Users of the appendix are reminded that it contains all potential crosswalkable program codes at all levels, not just those for which data are currently being reported. This approach is required to enable data coders to possess a map of every possible data placement. If U.S. institutions indicate that a specific program is offered at a given level, a position for any resulting completion data must be assigned. (If no U.S. institutions report offering a program at a particular ISCED level, it is not listed in the appendix at that level.) It would be methodologically improper to introduce bias or otherwise limit the crosswalk based on assumptions about data significance which might vary over time or be affected by other valid circumstances. Users interested in discovering which ISCED or U.S. programs are actually generating consistently high numbers of completions at different levels are invited to consult the discussions in chapters 3-10.

CIP Codes in the Appendix Followed by an Asterisk (*). CIP codes listed in the crosswalk appendix which have an asterisk (*) located behind them are codes for which NCES is currently collecting significant data. (Refer to the definition of significant data in chapter 2.)

Use of the Symbol "N/A." Wherever this symbol appears in the crosswalk matrix, it means "not applicable," which means that no U.S. data exist which correspond to the ISCED code in question.

ISCED Codes Preceded by a Carrot (>). ISCED codes listed in the crosswalk appendix which are preceded by a carrot (>) are codes which have had to be inserted using ISCED rules in order to report U.S. data corresponding to that code at the level in question. Thus, an ISCED code (less the level number) may have a carrot at some levels but not at others. (Refer to Chapters 3-10 for discussions of inserted ISCED codes.)

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0. Education Preceeding the First Level

ISCED

CCD

001

D01 (PK) *Pre-Kindergarten*
D02 (K) *Kindergarten*

1. Education at the First Level

ISCED		CCD
101		
10100		**D03 (1)** *Grade 1*
		D04 (2) *Grade 2*
		D05 (3) *Grade 3*
		D06 (4) *Grade 4*
		D07 (5) *Grade 5*
		D08 (6) *Grade 6*
		D15 (U) *Ungraded*

	(CIP)	
108		
10811	**32.0108**	*Reading, Literacy, and Communications Skills*

126		N/A
12600		N/A
134		N/A
13401		N/A
13411		N/A
150		N/A
15000		N/A
152		N/A
15201		N/A
15212		N/A
15216		N/A
15222		N/A

238

15232	N/A
15242	N/A
15262	N/A
15272	N/A
15274	N/A
15276	N/A
15299	N/A
162	N/A
16202	N/A
16262	N/A
16272	N/A
166	N/A
16601	N/A
16604	N/A
16608	N/A
16622	N/A
16699	N/A
178	N/A
17812	N/A
17822	N/A
17842	N/A
17899	N/A
189	N/A
18900	N/A

2. Education at the Second Level, First Stage

ISCED	CCD
201	
20100	**D09** (7) *Grade 7*
	D10 (8) *Grade 8*
	D11 (9) *Grade 9*
214	N/A
21401	N/A
21408	N/A
226	N/A
22600	N/A
234	N/A
23401	N/A
23404	N/A
23439	N/A
250	N/A
25002	N/A
25012	N/A
25015	N/A
25099	N/A
252	N/A
25201	N/A
25212	N/A
25216	N/A
25222	N/A
25232	N/A

25242	N/A
25262	N/A
25264	N/A
25266	N/A
25272	N/A
25274	N/A
25276	N/A
25278	N/A
25282	N/A
25299	N/A
254	N/A
25402	N/A
25406	N/A
25422	N/A
25426	N/A
25436	N/A
25452	N/A
25499	N/A
262	N/A
26202	N/A
26203	N/A
26206	N/A
26208	N/A
26249	N/A
26262	N/A
26272	N/A
266	N/A
26601	N/A
26612	N/A
26622	N/A
26699	N/A
270	N/A
27004	N/A

241

27006	N/A
27008	N/A
27026	N/A
27029	N/A
278	N/A
27812	N/A
27822	N/A
27862	N/A
27872	N/A
27899	N/A
289	N/A
28900	N/A

3. Education at the Second Level, Second Stage

ISCED		CCD
301		
30100		**D12 (10)** *Grade 10*
		D13 (11) *Grade 11*
		D14 (12) *Grade 12*
		E01 (RD) *Regular Diploma*
		E02 (OD) *Other Diploma*
		E03 (HE) *High School Equivalence Recipients*

301	(CIP)	
30100	**53.0101**	*Regular (General) High School Diploma Program*
	53.0102	*College Preparatory High School Diploma Program*
	53.0103	*Vocational High School Diploma Program*
	53.0104	*Honors/Regents High School Diploma Program*
	53.0199	*High School/Secondary Diplomas, Other*
	53.0201	*High School Equivalence Certificate*

30104		N/A
30108		N/A
30199		**E04 (OC)** *Other High School Completers*

30199	**53.0202**	*High School Certificate of Competence*
	53.0203	*Certificate of IEP Completion*
	53.0299	*High School/Secondary Certificates, Other*

314		N/A
31401		N/A
31408		N/A

31412	N/A
31416	N/A
31422	N/A
31499	N/A
318	N/A
31804	N/A
31812	N/A
31822	N/A
31899	N/A
326	N/A
32600	N/A
334	N/A
33401	N/A
33404	N/A
33408	N/A
33422	N/A
33432	N/A
33439	N/A
350	N/A
35002	N/A
35012	N/A
35015	N/A
35099	N/A
352	N/A
35201	N/A
35212	N/A
35216	N/A
35222	N/A
35232	N/A
35242	N/A

35262	N/A
35264	N/A
35266	N/A
35272	N/A
35274	N/A
35276	N/A
35278	N/A
35282	N/A
35299	N/A
354	N/A
35402	N/A
35406	N/A
35422	N/A
35426	N/A
35436	N/A
35452	N/A
35499	N/A
362	N/A
36202	N/A
36203	N/A
36206	N/A
36208	N/A
36249	N/A
36262	N/A
36272	N/A
366	N/A
36601	N/A
36612	N/A
36622	N/A
36699	N/A
370	N/A
37004	N/A
37006	N/A

37008	N/A
37026	N/A
37029	N/A
378	N/A
37812	N/A
37822	N/A
37862	N/A
37872	N/A
37899	N/A
389	N/A
38900	N/A

5. Education at the Third Level, First Stage of the Type that Leads to an Award Not Equivalent to a First University Degree

ISCED	IPEDS	
5	LT1	*Postsecondary Award, Certificate, or Diploma of Less Than One Academic Year*
	LT2	*Postsecondary Award, Certificate, or Diploma of At Least One but Less Than Two Academic Years*
	Asc	*Associate's Degree*
	LT4	*Postsecondary Award, Certificate, or Diploma of At Least Two but Less Than Four Academic Years*

ISCED	CIP	
>501		
>50100	24.0101	*Liberal Arts and Sciences/Liberal Studies**
	24.0102	*General Studies**
	24.0199	*Liberal Arts and Sciences/General Studies and Humanities, Other**
514		
51401	13.0101	*Education, General**
	13.1202	*Elementary Teacher Education**
	13.1203	*Junior High/Intermediate/Middle School Teacher Education*
	13.1205	*Secondary Teacher Education**
	13.1206	*Teacher Education, Multiple Levels*
	13.1299	*General Teacher Education, Other**
	13.1501	*Teacher Assistant/Aide**
51404	13.1302	*Art Teacher Education**
	13.1305	*English Teacher Education**
	13.1306	*Foreign Languages Teacher Education*
	13.1307	*Health Teacher Education**
	13.1311	*Mathematics Teacher Education**
	13.1312	*Music Teacher Education**
	13.1314	*Physical Education Teaching and Coaching**
	13.1315	*Reading Teacher Education*

	13.1316	Science Teacher Education, General*
	13.1317	Social Science Teacher Education*
	13.1318	Social Studies Teacher Education*
	13.1321	Computer Teacher Education
	13.1322	Biology Teacher Education
	13.1323	Chemistry Teacher Education
	13.1324	Drama and Dance Teacher Education
	13.1325	French Language Teacher Education
	13.1326	German Language Teacher Education
	13.1328	History Teacher Education
	13.1329	Physics Teacher Education
	13.1330	Spanish Language Teacher Education
	13.1331	Speech Teacher Education
	13.1401	Teaching English as a Second Language/Foreign Language*

51408		
	13.1301	Agricultural Teacher Education*
	13.1303	Business Teacher Education*
	13.1304	Driver and Safety Teacher Education
	13.1308	Home Economics Teacher Education*
	13.1309	Technology/Industrial Arts Teacher Education*
	13.1310	Marketing Operations/Marketing and Distribution Teacher Education
	13.1319	Technical Teacher Education*
	13.1320	Trade and Industrial Teacher Education
	13.1327	Health Occupations Teacher Education

51412		
	13.1204	Pre-Elementary/Early Childhood/Kindergarten Teacher Education*

51416		
	13.1201	Adult and Continuing Teacher Education*

51422		
	13.1001	Special Education, General*
	13.1003	Education of the Deaf and Hearing Impaired*
	13.1005	Education of the Emotionally Handicapped
	13.1006	Education of the Mentally Handicapped
	13.1007	Education of the Multiple Handicapped
	13.1008	Education of the Physically Handicapped
	13.1009	Education of the Blind and Visually Handicapped
	13.1011	Education of the Specific Learning Disabled
	13.1012	Education of the Speech Impaired
	13.1013	Education of the Autistic
	13.1099	Special Education, Other*

51432	N/A

>51472	13.0301	Curriculum and Instruction
	13.0601	Educational Evaluation and Research
	13.0603	Educational Statistics and Research Methods
	13.0604	Educational Assessment, Testing, and Measurement
	13.0699	Educational Evaluation, Research, and Statistics, Other
	13.0701	International and Comparative Education
	13.0802	Educational Psychology
	13.0901	Social and Philosophical Foundations of Education
51499	13.0201	Bilingual/Bicultural Education
	13.0501	Educational/Instructional Media Design
	13.1004	Education of the Gifted and Talented
	13.1101	Counselor Education/Counseling and Guidance Services
	13.1102	College/Postsecondary Student Counseling and Personnel Services
	13.1399	Teacher Education, Specific Academic and Vocational Programs, Other*
	13.9999	Education, Other*

518

51801	50.0401	Design and Visual Communications*
	50.0701	Art, General*
	50.0702	Fine/Studio Arts
>51802	50.0703	Art History, Criticism, and Conservation*
51804	50.0705	Drawing
	50.0708	Painting*
	50.0710	Printmaking
51808	50.0709	Sculpture
51812	50.0201	Crafts, Folk Art, and Artisanry
	50.0711	Ceramic Arts and Ceramics
	50.0712	Fiber, Textile, and Weaving Arts
	50.0713	Metal and Jewelry Arts
51822	50.0901	Music, General*
	50.0902	Music History and Literature
	50.0903	Music — General Performance*
	50.0904	Music Theory and Composition
	50.0905	Musicology and Ethnomusicology
	50.0906	Music Conducting

	50.0907	*Music — Piano and Organ Performance*
	50.0908	*Music — Voice and Choral/Opera Performance*
	50.0909	*Music Business Management and Merchandising*
	50.0999	*Music, Other**
51832	50.0501	*Drama/Theatre Arts, General**
	50.0502	*Technical Theatre/Theatre Design and Stagecraft**
	50.0503	*Acting and Directing*
	50.0504	*Playwriting and Screenwriting*
	50.0505	*Drama/Theatre Literature, History, and Criticism*
	50.0599	*Dramc /Theatre Arts and Stagecraft, Other*
51842	10.0103	*Photographic Technology/Technician**
	50.0406	*Commercial Photography**
	50.0601	*Film/Cinema Studies**
	50.0602	*Film-Video Making/Cinematography and Production**
	50.0605	*Photography**
	50.0699	*Film/Video and Photographic Arts, Other**
51852	50.0408	*Interior Design**
51899	50.0101	*Visual and Performing Arts**
	50.0301	*Dance**
	50.0402	*Graphic Design, Commercial Art, and Illustration**
	50.0404	*Industrial Design**
	50.0407	*Fashion Design and Illustration**
	50.0499	*Design and Applied Arts, Other**
	50.0704	*Arts Management*
	50.0706	*Intermedia*
	50.0799	*Fine Arts and Art Studies, Other**
	50.9999	*Visual and Performing Arts, Other**
522		
>52201	24.0103	*Humanities/Humanistic Studies*
52202	16.0103	*Foreign Language Interpretation and Translation*
52208	16.0101	*Foreign Languages and Literatures, General**
	16.9999	*Foreign Languages and Literatures, Other**
52211	23.0101	*English Language and Literature, General**
	23.0401	*English Composition*
	23.0501	*English Creative Writing*

	23.0701	American Literature (United States)
	23.0801	English Literature (British and Commonwealth)
	23.1001	Speech and Rhetorical Studies*
	23.1101	English Technica! and Business Writing*
	23.9999	English Language and Literature/Letters, Other*
>52215	16.0301	Chinese Language and Literature
	16.0302	Japanese Language and Literature
	16.0399	East and Southeast Asian Languages and Literatures, Other
	16.0402	Russian Language and Literature
	16.0403	Slavic Languages and Literatures (Other Than Russian)
	16.0499	East European Languages and Literatures, Other
	16.0501	German Language and Literature
	16.0502	Scandinavian Languages and Literatures
	16.0599	Germanic Languages and Literatures, Other
	16.0601	Greek Language and Literature (Modern)
	16.0703	South Asian Languages and Literatures
	16.0901	French Language and Literature*
	16.0902	Italian Language and Literature
	16.0904	Portuguese Language and Literature
	16.0905	Spanish Language and Literature*
	16.0999	Romance Languages and Literatures, Other
	16.1101	Arabic Language and Literature
	16.1102	Hebrew Language and Literature
	16.1199	Middle Eastern Languages and Literatures, Other
>52221	16.1201	Classics and Classical Languages and Literatures
	16.1202	Greek Language and Literature (Ancient and Medieval)
	16.1203	Latin Language and Literature (Ancient and Medieval)
	16.1299	Classical and Ancient Near Eastern Languages and Literatures, Other
>52241	23.0301	Comparative Literature
>52251	45.0801	History, General*
	45.0802	American (United States) History
	45.0803	European History
	45.0804	History and Philosophy of Science and Technology
	45.0805	Public/Applied History and Archival Administration
	45.0899	History, Other
>52261	45.0301	Archaeology
>52271	38.0101	Philosophy

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52299	05.0204	*Islamic Studies*
	05.0205	*Jewish/Judaic Studies**
	30.1301	*Medieval and Renaissance Studies*

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52600	38.0201	*Religion/Religious Studies**
	38.9999	*Philosophy and Religion**
	39.0101	*Biblical and Other Theological Languages and Literatures*
	39.0201	*Bible/Biblical Studies**
	39.0301	*Missions/Missionary Studies and Missiology**
	39.0401	*Religious Education**
	39.0501	*Religious/Sacred Music**
	39.0601	*Theology/Theological Studies**
	39.0602	*Divinity/Ministry (BD, MDiv)*
	39.0603	*Rabbinical and Talmudic Studies (MHL, Rav)*
	39.0604	*Pre-Theological/Pre-Ministerial Studies*
	39.0699	*Theological and Ministerial Studies, Other**
	39.0701	*Pastoral Counseling and Specialized Ministries*
	39.9999	*Theological Studies and Religious Vocations, Other**

530

>53001	45.0101	*Social Sciences, General**

53012	45.0601	*Economics, General**
	45.0602	*Applied and Resource Economics*
	45.0603	*Econometrics and Quantitative Economics*
	45.0604	*Development Economics and International Development*
	45.0605	*International Economics*
	45.0699	*Economics, Other*

53022	45.0901	*International Relations and Affairs*
	45.1001	*Political Science, General**
	45.1002	*American Government and Politics*
	45.1099	*Political Science and Government, Other*

53032	45.1101	*Sociology**

>53042	45.0201	*Anthropology**

53052	42.0101	Psychology, General*
	42.0201	Clinical Psychology
	42.0301	Cognitive Psychology and Psycholinguistics
	42.0401	Community Psychology*
	42.0601	Counseling Psychology
	42.0701	Developmental and Child Psychology
	42.0801	Experimental Psychology
	42.0901	Industrial and Organizational Psychology
	42.1101	Physiological Psychology/Psychobiology
	42.1601	Social Psychology
	42.1701	School Psychology
	42.9999	Psychology, Other*
> 53062	45.0701	Geography*
	45.0702	Cartography
> 53072	05.0101	African Studies
	05.0102	American Studies/Civilization
	05.0103	Asian Studies
	05.0104	East Asian Studies
	05.0105	Eastern European Area Studies
	05.0106	European Studies
	05.0107	Latin American Studies
	05.0108	Middle Eastern Studies
	05.0109	Pacific Area Studies
	05.0110	Russian and Slavic Area Studies
	05.0111	Scandinavian Area Studies
	05.0112	South Asian Studies
	05.0113	Southeast Asian Studies
	05.0114	Western European Studies
	05.0115	Canadian Studies
	05.0199	Area Studies, Other
53099	05.0201	Afro-American (Black) Studies
	05.0202	American Indian/Native American Studies
	05.0203	Hispanic-American Studies
	05.0206	Asian-American Studies
	05.0207	Women's Studies
	05.0299	Ethnic and Cultural Studies, Other
	05.9999	Area, Ethnic, and Cultural Studies, Other
	30.0501	Peace and Conflict Studies
	45.0501	Demography/Population Studies
	45.1201	Urban Affairs/Studies*
	45.9999	Social Sciences and History, Other*

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53401	**52.0101**	*Business, General**
	52.0201	*Business Administration and Management, General**
53404	**52.0401**	*Administrative Assistant/Secretarial Science, General**
	52.0402	*Executive Assistant/Secretary**
	52.0403	*Legal Administrative Assistant/Secretary**
	52.0404	*Medical Administrative Assistant/Secretary**
	52.0405	*Court Reporter**
	52.0406	*Receptionist**
	52.0499	*Administrative and Secretarial Services, Other**
>53408	**52.0408**	*General Office/Clerical and Typing Services**
53422	N/A	
53426	**52.0407**	*Information Processing/Data Entry Technician**
	52.1201	*Management Information Systems and Business Data Processing, General**
	52.1202	*Business Computer Programming/Programmer**
	52.1203	*Business Systems Analysis and Design**
	52.1204	*Business Systems Networking and Telecommunications*
	52.1205	*Business Computer Facilities Operator**
	52.1299	*Business Information and Data Processing Services, Other**
53432	**52.0301**	*Accounting**
	52.0302	*Accounting Technician**
	52.0399	*Accounting, Other**
53434	**08.0701**	*Auctioneering**
	08.0704	*General Buying Operations**
	08.0705	*General Retailing Operations**
	08.0706	*General Selling Skills and Sales Operations**
	08.0708	*General Marketing Operations**
	08.0709	*General Distribution Operations**
	08.0799	*General Retailing and Wholesaling Operations and Skills, Other**
	09.0201	*Advertising**
	52.1401	*Business Marketing and Marketing Management**
	52.1402	*Marketing Research*
	52.1403	*International Business Marketing*
	52.1499	*Marketing Management and Research, Other**

53436	52.0801	*Finance, General**
	52.0803	*Banking and Financial Support Services**
	52.0804	*Financial Planning*
	52.0805	*Insurance and Risk Management**
	52.0806	*International Finance*
	52.0807	*Investments and Securities*
	52.0899	*Financial Management and Services, Other*
	52.1601	*Taxation**
53439	08.0301	*Entrepreneurship**
	52.0202	*Purchasing, Procurement, and Contracts Management**
	52.0203	*Logistics and Materials Management**
	52.0204	*Office Supervision and Management**
	52.0205	*Operations Management and Supervision**
	52.0299	*Business Administration and Management, Other**
	52.0501	*Business Communications*
	52.0601	*Business/Managerial Economics*
	52.0701	*Enterprise Management and Operation, General**
	52.0702	*Franchise Operation*
	52.0799	*Enterprise Management and Operation, Other*
	52.0901	*Hospitality Administration/Management**
	52.0902	*Hotel/Motel and Restaurant Management**
	52.0903	*Travel and Tourism Management**
	52.0999	*Hospitality Services Management, Other**
	52.1001	*Human Resources Management**
	52.1002	*Labor/Personnel Relations and Studies**
	52.1003	*Organizational Behavior Studies*
	52.1099	*Human Resources Management, Other*
	52.1101	*International Business**
	52.1301	*Management Science**
	52.1302	*Business Statistics*
	52.1399	*Business Quantitative Methods and Management Science, Other**
	52.1501	*Real Estate**
	52.9999	*Business Management and Administrative Services, Other**
53452	44.0401	*Public Administration**
	44.0501	*Public Policy Analysis*
	44.9999	*Public Administration and Services, Other**
	52.0808	*Public Finance*
53462	13.0401	*Education Administration and Supervision, General*
	13.0402	*Administration of Special Education*
	13.0403	*Adult and Continuing Education Administration*

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	13.0404	Educational Supervision
	13.0405	Elementary, Middle, and Secondary Education Administration
	13.0406	Higher Education Administration
	13.0407	Community and Junior College Education
	13.0499	Education Administration and Supervision, Other
	51.0701	Health System/Health Services Administration*
	51.0702	Hospital/Health Facilities Administration
	51.0705	Medical Office Management*
	51.0706	Medical Records Administration
	51.0707	Medical Records Technology/Technician*
	51.0708	Medical Transcription
	51.0799	Health and Medical Administrative Services, Other*
	52.0206	Non-Profit and Public Management

538

53800   N/A

53801   22.0101   Law (LLB, JD)
                   22.0102   Pre-Law Studies*
                   22.0103   Paralegal/Legal Assistant*

53802   N/A

53804   N/A

53806   N/A

53808   N/A

53812   N/A

53899   22.0104   Juridical Science/Legal Specialization (LLM, MCL, JSD/SJD)
                   22.0199   Law and Legal Studies, Other*

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54202   26.0101   Biology, General*
                   26.0202   Biochemistry
                   26.0203   Biophysics
                   26.0301   Botany, General

	26.0305	*Plant Pathology*
	26.0307	*Plant Physiology*
	26.0399	*Botany, Other*
	26.0401	*Cell Biology*
	26.0402	*Molecular Biology*
	26.0499	*Cell and Molecular Biology, Other*
	26.0501	*Microbiology/Bacteriology*
	26.0601	*Anatomy*
	26.0603	*Ecology*
	26.0607	*Marine/Aquatic Biology*
	26.0608	*Neuroscience*
	26.0609	*Nutritional Sciences*
	26.0610	*Parasitology*
	26.0611	*Radiation Biology/Radiobiology*
	26.0612	*Toxicology*
	26.0613	*Genetics, Plant and Animal*
	26.0614	*Biometrics*
	26.0615	*Biostatistics*
	26.0616	*Biotechnology Research*
	26.0617	*Evolutionary Biology*
	26.0618	*Biological Immunology*
	26.0619	*Virology*
	26.0699	*Miscellaneous Biological Specializations, Other**
	26.0701	*Zoology, General*
	26.0702	*Entomology*
	26.0704	*Pathology, Human and Animal*
	26.0705	*Pharmacology, Human and Animal*
	26.0706	*Physiology, Human and Animal*
	26.0799	*Zoology, Other*
	26.9999	*Biological Sciences/Life Sciences, Other**
54212	40.0501	*Chemistry, General**
	40.0502	*Analytical Chemistry*
	40.0503	*Inorganic Chemistry*
	40.0504	*Organic Chemistry*
	40.0505	*Medicinal/Pharmaceutical Chemistry*
	40.0506	*Physical and Theoretical Chemistry*
	40.0507	*Polymer Chemistry*
	40.0599	*Chemistry, Other*
54222	40.0601	*Geology**
	40.0602	*Geochemistry*
	40.0603	*Geophysics and Seismology*
	40.0604	*Paleontology*
	40.0699	*Geological and Related Sciences, Other*

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54232	40.0801	*Physics, General**
	40.0802	*Chemical and Atomic/Molecular Physics*
	40.0804	*Elementary Particle Physics*
	40.0805	*Plasma and High-Temperature Physics*
	40.0806	*Nuclear Physics*
	40.0807	*Optics*
	40.0808	*Solid State and Low-Temperature Physics*
	40.0809	*Acoustics*
	40.0810	*Theoretical and Mathematical Physics*
	40.0899	*Physics, Other*
>54262	40.0702	*Oceanography**
54299	30.0101	*Biological and Physical Sciences**
	30.0601	*Systems Science and Theory*
	30.1001	*Biopsychology*
	40.0101	*Physical Sciences, General**
	40.0701	*Metallurgy*
	40.0703	*Earth and Planetary Sciences*
	40.0799	*Miscellaneous Physical Sciences, Other*
	40.9999	*Physical Sciences, Other**
546		
54601	27.0101	*Mathematics**
54611	27.0501	*Mathematical Statistics*
54621	52.0802	*Actuarial Science*
54639	27.0301	*Applied Mathematics, General*
	27.0302	*Operations Research*
	27.0399	*Applied Mathematics, Other*
	27.9999	*Mathematics, Other**
	30.0801	*Mathematics and Computer Science*
54641	11.0101	*Computer and Information Sciences, General**
	11.0201	*Computer Programming**
	11.0301	*Data Processing Technology/Technician**
	11.0401	*Information Sciences and Systems**
	11.0501	*Computer Systems Analysis*
	11.0701	*Computer Science**
	11.9999	*Computer and Information Sciences, Other**

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55002	51.0301	*Community Health Liason**
	51.2201	*Public Health, General*
	51.2202	*Environmental Health*
	51.2203	*Epidemiology*
	51.2204	*Health and Medical Biostatistics*
	51.2205	*Health Physics/Radiologic Health*
	51.2206	*Occupational Health and Industrial Hygiene*
	51.2207	*Public Health Education and Promotion*
	51.2299	*Public Health, Other*
>55006	51.0807	*Physician Assistant**
	51.1102	*Pre-Medicine Studies**
	51.1201	*Medicine (MD)*
	51.1401	*Medical Clinical Sciences (MS, PhD)*
	51.1901	*Osteopathic Medicine (DO)*
55008	51.0803	*Occupational Therapy Assistant**
	51.0806	*Physical Therapy Assistant**
	51.2301	*Art Therapy*
	51.2302	*Dance Therapy*
	51.2303	*Hypnotherapy*
	51.2304	*Movement Therapy*
	51.2305	*Music Therapy*
	51.2306	*Occupational Therapy**
	51.2307	*Orthotics/Prosthetics**
	51.2308	*Physical Therapy**
	51.2309	*Recreational Therapy**
	51.2310	*Vocational Rehabilitation Counseling**
	51.2399	*Rehabilitation/Therapeutic Services, Other**
55012	51.1601	*Nursing (RN Training)**
	51.1602	*Nursing Administration*
	51.1603	*Nursing, Adult Health*
	51.1604	*Nursing Anesthetist*
	51.1605	*Nursing, Family Practice*
	51.1606	*Nursing, Maternal/Child Health*
	51.1608	*Nursing Science*
	51.1609	*Nursing, Pediatric*
	51.1610	*Nursing, Psychiatric/Mental Health*
	51.1611	*Nursing, Public Health*
	51.1612	*Nursing, Surgical*
	51.1613	*Practical Nurse (LPN Training)**
	51.1614	*Nurse Assistant/Aide**

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	51.1615	*Home Health Aide**
	51.1699	*Nursing, Other**
5501&	51.1607	*Nursing Midwifery*
55017	51.0907	*Medical Radiologic Technology/Technician**
55019	51.0901	*Cardiovascular Technology/Technician**
	51.0902	*Electrocardiograph Technology/Technician**
	51.0903	*Electroencephalograph Technology/Technician**
	51.0904	*Emergency Medical Technology/Technician**
	51.0905	*Nuclear Medical Technology/Technician**
	51.0906	*Perfusion Technology/Technician*
	51.0908	*Respiratory Therapy Technology/Technician**
	51.0909	*Surgical/Operating Room Technician**
	51.0910	*Diagnostic Medical Sonography**
	51.0999	*Health and Medical Diagnostic and Treatment Services, Other**
>55030	51.0802	*Medical Laboratory Assistant**
	51.1001	*Blood Bank Technology/Technician**
	51.1002	*Cytotechnologist**
	51.1003	*Hematology Technology/Technician*
	51.1004	*Medical Laboratory Technician**
	51.1005	*Medical Technology**
	51.1006	*Optometric/Ophthalmic Laboratory Technician*
	51.1099	*Health and Medical Laboratory Technologists/Technicians, Other**
55042	51.0401	*Dentistry (DDS, DMD)*
	51.0501	*Dental Clinical Sciences/Graduate Dentistry (MS, PhD)*
	51.1101	*Pre-Dentistry Studies**
55046	51.0601	*Dental Assistant**
	51.0602	*Dental Hygienist**
	51.0603	*Dental Laboratory Technician**
	51.0699	*Dental Services, Other*
55052	51.0805	*Pharmacy Technician/Assistant**
	51.1103	*Pre-Pharmacy Studies**
	51.2001	*Pharmacy (BPharm, PharmD)*
	51.2002	*Pharmacy Administration and Pharmaceutics*
	51.2003	*Medical Pharmacology and Pharmaceutical Sciences*
	51.2099	*Pharmacy, Other**

55062	51.0804	Ophthalmic Medical Assistant
	51.1701	Optometry (OD)
	51.1801	Opticianry/Dispensing Optician*
	51.1802	Optical Technician/Assistant*
	51.1803	Ophthalmic Medical Technologist
	51.1804	Orthoptics
	51.1899	Ophthalmic/Optometric Services, Other*

55099	51.0101	Chiropractic (DC, DCM)
	51.0201	Communication Disorders, General
	51.0202	Audiology/Hearing Sciences
	51.0203	Speech-Language Pathology
	51.0204	Speech-Language Pathology and Audiology
	51.0205	Sign Language Interpreter*
	51.0299	Communication Disorders Sciences and Services, Other
	51.0703	Health Unit Coordinator/Ward Clerk*
	51.0704	Health Unit Manager/Ward Supervisor*
	51.0801	Medical Assistant*
	51.0899	Health and Medical Assistants, Other
	51.1199	Health and Medical Preparatory Programs, Other*
	51.1301	Medical Anatomy
	51.1302	Medical Biochemistry
	51.1303	Medical Biomathematics and Biometrics
	51.1304	Medical Physics/Biophysics
	51.1305	Medical Cell Biology
	51.1306	Medical Genetics
	51.1307	Medical Immunology
	51.1308	Medical Microbiology
	51.1309	Medical Molecular Biology
	51.1310	Medical Neurobiology
	51.1311	Medical Nutrition
	51.1312	Medical Pathology
	51.1313	Medical Physiology
	51.1314	Medical Toxicology
	51.1399	Basic Medical Sciences, Other
	51.1501	Alcohol/Drug Abuse Counseling*
	51.1502	Psychiatric/Mental Health Services Technician*
	51.1503	Clinical and Medical Social Work
	51.1599	Mental Health Services, Other
	51.2101	Podiatry (DPM, DP, PodD)
	51.2601	Health Aide*
	51.2701	Acupuncture and Oriental Medicine
	51.2702	Medical Dietician
	51.2703	Medical Illustrating
	51.2704	Naturopathic Medicine

| | 51.2705 | Psychoanalysis |
| | 51.9999 | Health Professions and Related Sciences, Other* |

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| 55212 | 01.0401 | Agricultural and Food Products Processing Operations and Management* |
| | 12.0506 | Meatcutter* |

>55216	46.0101	Mason and Tile Setter*
	46.0201	Carpenter*
	46.0301	Electrical and Power Transmission Installer, General*
	46.0302	Electrician*
	46.0303	Lineworker*
	46.0399	Electrical and Power Transmission Installer, Other*
	46.0401	Building/Property Maintenance and Manager*
	46.0403	Construction/Building Inspector*
	46.0408	Painter and Wall Coverer*
	46.0499	Construction and Building Finishers and Managers, Other*
	46.0501	Plumber and Pipefitter*
	46.9999	Construction Trades, Other*

55222	47.0101	Electrical and Electronics Equipment Installer and Repairer, General*
	47.0102	Business Machine Repairer*
	47.0103	Communication Systems Installer and Repairer*
	47.0104	Computer Installer and Repairer*
	47.0105	Industrial Electronics Installer and Repairer*
	47.0106	Major Appliance Installer and Repairer*
	47.0102	Electrical and Electronics Equipment Installer and Repairer, Other*

55232	48.0501	Machinist/Machine Technologist*
	48.0503	Machine Shop Assistant*
	48.0506	Sheet Metal Worker*
	48.0507	Tool and Die Maker/Technologist*
	48.0508	Welder/Welding Technologist*
	48.0599	Precision Metal Workers, Other*

55242	47.0302	Heavy Equipment Maintenance and Repairer*
	47.0303	Industrial Machinery Maintenance and Repairer*
	47.0399	Industrial Equipment Maintenance and Repairers, Other*

	47.0401	Instrument Calibration and Repairer*
	47.0402	Gunsmith*
	47.0403	Locksmith and Safe Repairer
	47.0404	Musical Instrument Repairer*
	47.0408	Watch, Clock and Jewelry Repairer*
	47.0499	Miscellaneous Mechanics and Repairers, Other*
	47.0501	Stationary Energy Sources Installer and Operator*
	47.0603	Auto/Automotive Body Repairer*
	47.0604	Auto/Automotive Mechanic/Technician*
	47.0605	Diesel Engine Mechanic and Repairer*
	47.0606	Small Engine Mechanic and Repairer*
	47.0607	Aircraft Mechanic/Technician, Airframe*
	47.0608	Aircraft Mechanic/Technician, Powerplant*
	47.0609	Aviation Systems and Avionics Maintenance Technologist/Technician*
	47.0610	Bicycle Mechanic and Repairer
	47.0611	Motorcycle Mechanic and Repairer
	47.0699	Vehicle and Mobile Equipment Mechanics and Repairers, Other*
	47.9999	Mechanics and Repairers, Other*
	49.0306	Marine Maintenance and Ship Repairer*
>55262	48.0701	Woodworkers, General*
	48.0702	Furniture Designer and Maker*
	48.0703	Cabinet Maker and Millworker*
	48.0799	Woodworkers, Other*
55264	47.0201	Heating, Air Conditioning, and Refrigeration Mechanic and Repairer*
>55266	49.0202	Construction Equipment Operator*
>55272	48.0304	Shoe, Boot, and Leather Repairer
	48.0399	Leatherworkers and Upholsterers, Other
55274	N/A	
>55276	20.0301	Clothing, Apparel, and Textile Workers and Managers, General*
	20.0303	Commercial Garment and Apparel Worker*
	20.0305	Custom Tailor*
	20.0306	Fashion and Fabric Consultant*
	20.0399	Clothing, Apparel, and Textile Workers and Managers, Other*
	48.0303	Upholsterer*

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55278		48.0201	Graphic and Printing Equipment Operator, General*
		48.0205	Mechanical Typesetter and Composer*
		48.0206	Lithographer and Platemaker*
		48.0208	Printing Press Operator*
		48.0211	Computer Typography and Composition Equipment Operator
		48.0212	Desktop Publishing Equipment Operator
		48.0299	Graphic and Printing Equipment Operators, Other*
55284	/	41.0101	Biological Technology/Technician*
		41.0301	Chemical Technology/Technician*
		41.0399	Physical Science Technology/Technicians, Other*
		41.9999	Science Technology/Technicians, Other*
55286		N/A	
55299		48.9999	Precision Production Trades, Other*
554			
55402		15.1102	Surveying*
55406		14.2901	Engineering Design
		48.0101	Drafting, General*
		48.0102	Architectural Drafting*
		48.0103	Civil/Structural Drafting*
		48.0104	Electrical/Electronics Drafting*
		48.0105	Mechanical Drafting*
		48.0199	Drafting, Other*
55412		14.0601	Ceramic Sciences and Engineering
		14.0701	Chemical Engineering
		14.3201	Polymer/Plastics Engineering
		15.0607	Plastics Technology/Technician*
55416		14.0801	Civil Engineering, General*
		14.0802	Geotechnical Engineering
		14.0804	Transportation and Highway Engineering
		14.0805	Water Resources Engineering
		14.0899	Civil Engineering, Other
		14.2401	Ocean Engineering
		15.0201	Civil Engineering/Civil Technology/Technician*
		14.1001	Construction/Building Technology/Technician*

55422	14.0901	Computer Engineering*
	14.1001	Electrical, Electronics, and Communications Engineering*
	15.0301	Computer Engineering Technology/Technician*
	15.0303	Electrical, Electronic, and Communications Engineering Technology/Technician*
	15.0399	Electrical and Electronic Engineering-Related Technologies/Technicians, Other*
	15.0402	Computer Maintenance Technology/Technician*
	15.0403	Electromechanical Technology/Technician*
	15.0404	Instrumentation Technology/Technician*
	15.0405	Robotics Technology/Technician*
	15.0499	Electromechanical Instrumentation and Maintenance Technologies/Technicians*
55426	14.1701	Industrial/Manufacturing Engineering*
	14.3001	Engineering/Industrial Management
	15.0603	Industrial/Manufacturing Technology/Technician*
	15.0699	Industrial Production Technologies/Technicians, Other*
	15.0701	Occupational Safety and Health Technology/Technician*
	15.0702	Quality Control Technology/Technician*
	15.0799	Quality Control and Safety Technologies/Technicians, Other
55432	14.2001	Metallurgical Engineering
	15.0611	Metallurgical Technology/Technician*
55436	14.1501	Geological Engineering
	14.2101	Mining and Mineral Engineering
	15.0901	Mining Technology/Technician*
	15.0999	Mining and Petroleum Technologies/Technicians, Other*
55442	14.0201	Aerospace, Aeronautical, and Astronautical Engineering*
	14.1901	Mechanical Engineering*
	14.2201	Naval Architecture and Marine Engineering
	15.0801	Aeronautical and Aerospace Engineering Technology/Technician*
	15.0803	Automotive Engineering Technology/Technician*
	15.0805	Mechanical Engineering/Mechanical Technology/Technician*
	15.0899	Mechanical Engineering-Related Technologies/Technicians, Other*
	15.1103	Hydraulic Technology/Technician

265

55452	N/A	
>55453	14.0301	Agricultural Engineering

55499	14.0101	Engineering, General*
	14.0501	Bioengineering and Biomedical Engineering
	14.1101	Engineering Mechanics
	14.1201	Engineering Physics
	14.1301	Engineering Science*
	14.1401	Environmental/Environmental Health Engineering
	14.1601	Geophysical Engineering
	14.1801	Materials Engineering
	14.2301	Nuclear Engineering
	14.2501	Petroleum Engineering
	14.2701	Systems Engineering
	14.2801	Textile Sciences and Engineering
	14.3101	Materials Science
	14.9999	Engineering, Other*
	15.0304	Laser and Optical Technology/Technician*
	15.0401	Biomedical Engineering-Related Technology/Technician*
	15.0501	Heating, Air Conditioning, and Refrigeration Technology/Technician*
	15.0503	Energy Management and Systems Technology/Technician*
	15.0505	Solar Technology/Technician*
	15.0506	Water Quality and Wastewater Treatment Technology/Technician*
	15.0507	Environmental and Pollution Control Technology/Technician
	15.0599	Environmental Control Technologies/Technicians, Other*
	15.0903	Petroleum Technology/Technician*
	15.1101	Engineering-Related Technology/Technician, General*
	15.9999	Engineering-Related Technologies/Technicians, Other*
	41.0204	Industrial Radiologic Technology/Technician*
	41.0205	Nuclear/Nuclear Power Technology/Technician*
	41.0299	Nuclear and Industrial Radiologic Technologies/Technicians, Other*

558		

55801	04.0201	Architecture*

55802	04.0501	Interior Architecture*

	14.0401	*Architectural Engineering**
	14.0803	*Structural Engineering*
	15.0101	*Architectural Engineering Technology/Technician**
55812	04.0601	*Landscape Architecture*
55822	04.0301	*City/Urban, Community, and Regional Planning*
	04.0401	*Architectural Environmental Design**
	04.0701	*Architectural Urban Design and Planning*
>55899	04.9999	*Architecture and Related Programs, Other*
	30.1201	*Historic Preservation, Conservation, and Architectural History*

562

56201	01.0101	*Agricultural Business and Management, General**
	01.0301	*Agricultural Production Workers and Managers, General**
	02.0101	*Agriculture/Agricultural Sciences, General**
56203	01.0302	*Agricultural Animal Husbandry and Production Management**
	01.0303	*Aquaculture Operations and Production Management*
	01.0399	*Agricultural Production Workers and Managers, Other**
	02.0201	*Animal Sciences, General**
	02.0202	*Agricultural Animal Breeding and Genetics*
	02.0203	*Agricultural Animal Health**
	02.0204	*Agricultural Animal Nutrition*
	02.0205	*Agricultural Animal Physiology*
	02.0206	*Dairy Science**
	02.0209	*Poultry Science**
	02.0299	*Animal Sciences, Other**
56206	01.0601	*Horticulture Services Operations and Management, General**
	01.0603	*Ornamental Horticulture Operations and Management**
	01.0604	*Greenhouse Operations and Management**
	01.0605	*Landscaping Operations and Management**
	01.0606	*Nursery Operations and Management**
	01.0607	*Turf Management**
	01.0699	*Horticulture Services Operations and Management, Other**
	02.0403	*Horticulture Science**

56208	01.0304	Crop Production Operations and Management*
	02.0401	Plant Sciences, General*
	02.0402	Agronomy and Crop Science*
	02.0405	Plant Breeding and Genetics
	02.0406	Agricultural Plant Pathology
	02.0407	Agricultural Plant Physiology
	02.0408	Plant Protection (Pest Management)
	02.0409	Range Science and Management
	02.0499	Plant Sciences, Other*
56212	01.0102	Agricultural Business/Agribusiness Operations*
	01.0103	Agricultural Economics
	01.0104	Farm and Ranch Management*
	01.0199	Agricultural Business and Management, Other
>56222	02.0301	Food Sciences and Technology
56226	02.0501	Soil Sciences
56232	51.0808	Veterinarian Assistant/Animal Health Technician*
	51.1104	Pre-Veterinary Studies*
	51.2401	Veterinary Medicine (DVM)
	51.2501	Veterinary Clinical Sciences (MS, PhD)
56249	01.0201	Agricultural Mechanization, General*
	01.0204	Agricultural Power Machinery Operator*
	01.0299	Agricultural Mechanization, Other*
	01.0501	Agricultural Supplies Retailing and Wholesaling*
	01.0505	Animal Trainer
	01.0507	Equestrian/Equine Studies, Horse Management and Training*
	01.0599	Agricultural Supplies and Related Services, Other*
	01.0701	International Agriculture
	01.9999	Agricultural Business and Production, Other*
	02.0102	Agricultural Extension
	02.9999	Agriculture/Agricultural Sciences, Other
56262	03.0401	Forest Harvesting and Production Technology/Technician*
	03.0404	Forest Products Technology/Technician*
	03.0405	Logging/Timber Harvesting
	03.0499	Forest Production and Processing, Other*
	03.0501	Forestry, General*
	03.0502	Forestry Sciences*
	03.0506	Forest Management*

	03.0509	*Wood Sciences and Pulp/Paper Technology*
	03.0599	*Forestry and Related Sciences, Other**
	03.0601	*Wildlife and Wildlands Management**
56272	03.0301	*Fishing and Fisheries Sciences and Management**
	49.0303	*Fishing Technology/Commercial Fishing*

566

56601	19.0101	*Home Economics, General**

56612	19.0401	*Family Resource Management Studies*
	19.0402	*Consumer Economics and Science*
	19.0499	*Family/Consumer Resource Management, Other*
	19.0501	*Foods and Nutrition Studies, General*
	19.0502	*Foods and Nutrition Sciences*
	19.0503	*Dietetics/Human Nutritional Services**
	19.0505	*Food Systems Administration*
	19.0599	*Foods and Nutrition Studies, Other*
	20.0401	*Institutional Food Workers and Administrators, General**
	20.0404	*Dietician Assistant**
	20.0409	*Institutional Food Services Administrator**
	20.0499	*Institutional Food Workers and Administrators, Other**

56622	19.0701	*Individual and Family Development Studies, General**
	19.0706	*Child Growth, Care, and Development Studies*
	19.0799	*Individual and Family Development Studies, Other*
	20.0201	*Child Care and Guidance Workers and Managers, General**
	20.0202	*Child Care Provider/Assistant**
	20.0203	*Child Care Services Manager**
	20.0299	*Child Care and Guidance Workers and Managers, Other**

56632	19.0601	*Housing Studies, General*
	19.0603	*Interior Environments*
	19.0699	*Housing Studies, Other*
	19.0901	*Clothing/Apparel and Textile Studies**
	20.0501	*Home Furnishings and Equipment Installers and Consultants, General**
	20.0502	*Window Treatment Maker and Installer*
	20.0599	*Home Furnishings and Equipment Installers and Consultants, Other**

56699	19.0201	Business Home Economics
	19.0202	Home Economics Communications
	19.9999	Home Economics, Other
	20.0601	Custodial, Housekeeping, and Home Services Workers and Managers, General*
	20.0602	Elder Care Provider/Companion
	20.0606	Homemaker's Aide
	20.0699	Custodial, Housekeeping, and Home Services Workers and Managers, Other
	20.9999	Vocational Home Economics, Other*

570

57002	49.0102	Aircraft Pilot and Navigator (Commercial)*
	49.0106	Flight Attendant*
	49.0107	Aircraft Pilot (Private)*
57004	49.0309	Marine Science/Merchant Marine Officer
	49.0399	Water Transportation Workers, Other*
57006	N/A	
57008	49.0205	Truck, Bus, and Other Commercial Vehicle Operator*
	49.0299	Vehicle and Equipment Operators, Other*
57026	N/A	
57029	49.0101	Aviation and Airway Science*
	49.0104	Aviation Management*
	49.0105	Air Traffic Controller*
	49.0199	Air Transportation Workers, Other*
	49.0304	Diver (Professional)*
	49.9999	Transportation and Material Moving Workers, Other*

578

>57812	12.0401	Cosmetic Services, General*
	12.0402	Barber/Hairstylist*
	12.0403	Cosmetologist*
	12.0404	Electrolysis Technician
	12.0405	Massage*
	12.0406	Make-Up Artist*
	12.0499	Cosmetic Services, Other*

>57822	08.0901	Hospitality and Recreation Marketing Operations, General*
	08.0902	Hotel/Motel Services Marketing Operations
	08.0903	Recreation Products/Services Marketing Operations
	08.0906	Food Sales Operations
	08.0999	Hospitality and Recreation Marketing Operations, Other
	12.0504	Food and Beverage/Restaurant Operations Manager*
	20.0604	Custodian/Caretaker*
	20.0605	Executive Housekeeper*
57826	12.0501	Baker/Pastry Chef*
	12.0502	Bartender/Mixologist*
	12.0503	Culinary Arts/Chef Training*
	12.0505	Kitchen Personnel/Cook and Assistant Training
	12.0507	Waiter/Waitress and Dining Room Manager
	12.0599	Culinary Arts and Related Services, Other*
	20.0405	Food Caterer
>57842	20.0309	Drycleaner and Launderer (Commercial)*
57862	08.0101	Apparel and Accessories Marketing Operations, General*
	08.0102	Fashion Merchandising*
	08.0103	Fashion Modeling*
	08.0199	Apparel and Accessories Marketing Operations, Other
	08.0204	Business Services Marketing Operations
	08.0205	Personal Services Marketing Operations
	08.0299	Business and Personal Services Marketing Operations, Other*
	08.0401	Financial Services Marketing Operations*
	08.0503	Floristry Marketing Operations*
	08.0601	Food Products Retailing and Wholesaling Operations*
	08.0809	Home Products Marketing Operations
	08.0810	Office Products Marketing Operations
	08.0899	Home and Office Products Marketing Operations, Other
	08.1001	Insurance Marketing Operations*
	08.1203	Vehicle Parts and Accessories Marketing Operations*
	08.1208	Vehicle Marketing Operations
	08.1209	Petroleum Products Retailing Operations
	08.1299	Vehicle and Petroleum Products Marketing Operations, Other*
	08.1301	Health Products and Services Marketing Operations
	08.9999	Marketing Operations/Marketing and Distribution, Other*

271

57872	08.1104	Tourism Promotion Operations*
	08.1105	Travel Services Marketing Operations*
	08.1199	Tourism and Travel Services Marketing Operations, Other*

57899	12.0203	Card Dealer
	12.0204	Umpires and Other Sports Officials
	12.0299	Gaming and Sports Officiating Services, Other
	12.0301	Funeral Services and Mortuary Science*
	12.9999	Personal and Miscellaneous Services, Other*

584

58402	09.0401	Journalism*
	09.0403	Mass Communications
	09.0499	Journalism and Mass Communications, Other

58404	09.0402	Broadcast Journalism*
	09.0701	Radio and Television Broadcasting*
	10.0104	Radio and Television Broadcasting Technology/Technician*

| 58407 | 09.0501 | Public Relations and Organizational Communications* |

58409	09.0101	Communications, General*
	09.9999	Communications, Other*
	10.0101	Educational/Instructional Media Technology/Technician*
	10.0199	Communications Technologies/Technicians, Other*

58422	25.0101	Library Science/Librarianship*
	25.0301	Library Assistant*
	25.9999	Library Science, Other

| 58425 | 30.1401 | Museology/Museum Studies |

| 58429 | N/A | |

589

58912	43.0102	Corrections/Correctional Administration*
	43.0103	Criminal Justice/Law Enforcement Administration*
	43.0104	Criminal Justice Studies*

	43.0106	Forensic Technology/Technician*
	43.0107	Law Enforcement/Police Science*
	43.0109	Security and Loss Prevention Services*
	43.0199	Criminal Justice and Corrections, Other*
>58913	45.0401	Criminology*
58915	43.0201	Fire Protection and Safety Technology/Technician*
	43.0202	Fire Services Administration*
	43.0203	Fire Science/Firefighting*
	43.0299	Fire Protection, Other*
58917	29.0101	Military Technologies
58919	43.9999	Protective Services, Other*
58932	19.0301	Family and Community Studies*
	19.0703	Family and Marriage Counseling
	19.0704	Family Life and Relations Studies
	19.0705	Gerontological Services*
	44.0201	Community Organization, Resources, and Services*
	44.0701	Social Work*
58942	N/A	
58952	03.0101	Natural Resources Conservation, General*
	03.0102	Environmental Science/Studies*
	03.0201	Natural Resources Management and Policy*
	03.0203	Natural Resources Law Enforcement and Protective Services
	03.0299	Natural Resources Management and Protective Services, Other
	03.9999	Conservation and Renewable Natural Resources, Other*
58962	31.0101	Parks, Recreation, and Leisure Studies*
	31.0301	Parks, Recreation, and Leisure Facilities Management*
	31.0501	Health and Physical Education, General
	31.0502	Adapted Physical Education/Therapeutic Recreation
	31.0503	Athletic Training and Sports Medicine
	31.0504	Sport and Fitness Administration/Management
	31.0505	Exercise Sciences/Physiology and Movement Studies*
	31.0506	Socio-Psychological Sports Studies
	31.0599	Health and Physical Education/Fitness, Other*
	31.9999	Parks, Recreation, Leisure, and Fitness Studies, Other*

273

58972   N/A

58999   **30.1101**   *Gerontology*
                   30.1501   *Science, Technology, and Society*
                   30.9999   *Multi-/Interdisciplinary Studies, Other**

6. Education at the Third Level, First Stage of the Type that Leads to a First University Degree or Equivalent

ISCED	IPEDS	
6	Bac	Bachelor's Degree
	PBC	Postbaccalaureate Certificate

ISCED	CIP	
601		
60100	24.0101	Liberal Arts and Sciences/Liberal Studies*
	24.0102	General Studies*
	24.0199	Liberal Arts and Sciences/General Studies and Humanities, Other*
614		
61401	13.0101	Education, General*
	13.1202	Elementary Teacher Education*
	13.1203	Junior High/Intermediate/Middle School Teacher Education*
	13.1205	Secondary Teacher Education*
	13.1206	Teacher Education, Multiple Levels*
	13.1299	General Teacher Education, Other*
	13.1501	Teacher Assistant/Aide
61404	13.1302	Art Teacher Education*
	13.1305	English Teacher Education*
	13.1306	Foreign Languages Teacher Education*
	13.1307	Health Teacher Education*
	13.1311	Mathematics Teacher Education*
	13.1312	Music Teacher Education*
	13.1314	Physical Education Teaching and Coaching*
	13.1315	Reading Teacher Education*
	13.1316	Science Teacher Education, General*
	13.1317	Social Science Teacher Education*
	13.1318	Social Studies Teacher Education*
	13.1321	Computer Teacher Education*
	13.1322	Biology Teacher Education*

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	13.1323	*Chemistry Teacher Education*
	13.1324	*Drama and Dance Teacher Education*
	13.1325	*French Language Teacher Education*
	13.1326	*German Language Teacher Education*
	13.1328	*History Teacher Education**
	13.1329	*Physics Teacher Education*
	13.1330	*Spanish Language Teacher Education**
	13.1331	*Speech Teacher Education**
	13.1401	*Teaching English as a Second Language/Foreign Language**
61408	13.1301	*Agricultural Teacher Education**
	13.1303	*Business Teacher Education**
	13.1304	*Driver and Safety Teacher Education**
	13.1308	*Home Economics Teacher Education**
	13.1309	*Technology/Industrial Arts Teacher Education**
	13.1310	*Marketing Operations/Marketing and Distribution Teacher Education**
	13.1319	*Technical Teacher Education**
	13.1320	*Trade and Insustrial Teacher Education**
	13.1327	*Health Occupations Teacher Education**
61412	13.1204	*Pre-Elementary/Early Childhood/Kindergarten Teacher Education**
61416	13.1201	*Adult and Continuing Teacher Education**
61422	13.1001	*Special Education, General**
	13.1003	*Education of the Deaf and Hearing Impaired**
	13.1005	*Education of the Emotionally Handicapped**
	13.1006	*Education of the Mentally Handicapped**
	13.1007	*Education of the Multiple Handicapped**
	13.1008	*Education of the Physically Handicapped**
	13.1009	*Education of the Blind and Visually Handicapped**
	13.1011	*Education of the Specific Learning Disabled**
	13.1012	*Education of the Speech Impaired**
	13.1013	*Education of the Autistic*
	13.1099	*Special Education, Other**
61432	N/A	
>61472	13.0301	*Curriculum and Instruction**
	13.0601	*Educational Evaluation and Research*
	13.0603	*Educational Statistics and Research Methods*
	13.0604	*Educational Assessment, Testing, and Measurement*

	13.0699	*Educational Evaluation, Research, and Statistics, Other*
	13.0701	*International and Comparative Education*
	13.0802	*Educational Psychology**
	13.0901	*Social and Philosophical Foundations of Education*
61499	13.0201	*Bilingual/Bicultural Education**
	13.0501	*Educational/Instructional Media Design**
	13.1004	*Education of the Gifted and Talented*
	13.1101	*Counselor Education/Counseling and Guidance Services**
	13.1102	*College/Postsecondary Student Counseling and Personnel Services*
	13.1399	*Teacher Education, Specific Academic and Vocational Programs, Other**
	13.9999	*Education, Other**

618

61801	50.0401	*Design and Visual Communications**
	50.0701	*Art, General**
	50.0702	*Fine/Studio Arts**
>61802	50.0703	*Art History, Criticism, and Conservation**
61804	50.0705	*Drawing**
	50.0708	*Painting**
	50.0710	*Printmaking**
61808	50.0709	*Sculpture**
>61812	50.0201	*Crafts, Folk Art, and Artisanry**
	50.0711 ♦	*Ceramic Arts and Ceramics**
	50.0712	*Fiber, Textile, and Weaving Arts**
	50.0713	*Metal and Jewelry Arts**
61822	50.0901	*Music, General**
	50.0902	*Music History and Literature**
	50.0903	*Music — General Performance**
	50.0904	*Music Theory and Composition**
	50.0905	*Musicology and Ethnomusicology*
	50.0906	*Music Conducting*
	50.0907	*Music — Piano and Organ Performance**
	50.0908	*Music -- Voice and Choral/Opera Performance*
	50.0909	*Music Business Management and Merchandising**

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	50.0999	*Music, Other**
61832	50.0501	*Drama/Theatre Arts, General**
	50.0502	*Technical Theatre/Theatre Design and Stagecraft**
	50.0503	*Acting and Directing*
	50.0504	*Playwriting and Screenwriting*
	50.0505	*Drama/Theatre Literature, History, and Criticism*
	50.0599	*Drama/Theatre Arts and Stagecraft, Other*
>61842	10.0103	*Photographic Technology/Technician**
	50.0406	*Commercial Photography*
	50.0601	*Film/Cinema Studies**
	50.0602	*Film-Video Making/Cinematography and Production**
	50.0605	*Photography**
	50.0699	*Film/Video and Photographic Arts, Other**
61852	50.0408	*Interior Design**
61899	50.0101	*Visual and Performing Arts**
	50.0301	*Dance**
	50.0402	*Graphic Design, Commercial Art, and Illustration**
	50.0404	*Industrial Design**
	50.0407	*Fashion Design and Illustration**
	50.0499	*Design and Applied Arts, Other**
	50.0704	*Arts Management**
	50.0706	*Intermedia**
	50.0799	*Fine Arts and Art Studies, Other**
	50.9999	*Visual and Performing Arts, Other**
622		
62201	24.0103	*Humanities/Humanistic Studies**
62202	16.0103	*Foreign Language Interpretation and Translation*
>62208	16.0101	*Foreign Languages and Literatures, General**
	16.9999	*Foreign Languages and Literatures, Other**
62211	23.0101	*English Language and Literature, General**
	23.0401	*English Composition**
	23.0501	*English Creative Writing**
	23.0701	*American Literature (United States)**
	23.0801	*English Literature (British and Commonwealth)**
	23.1001	*Speech and Rhetorical Studies**

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	23.1101	English Technical and Business Writing*
	23.9999	English Language and Literature/Letters, Other*
62215	16.0301	Chinese Language and Literature*
	16.0302	Japanese Language and Literature*
	16.0399	East and Southeast Asian Languages and Literatures, Other*
	16.0402	Russian Language and Literature*
	16.0403	Slavic Languages and Literatures (Other Than Russian)*
	16.0499	East European Languages and Literatures, Other
	16.0501	German Language and Literature*
	16.0502	Scandinavian Languages and Literatures*
	16.0599	Germanic Languages and Literatures, Other*
	16.0601	Greek Language and Literature (Modern)
	16.0703	South Asian Languages and Literatures
	16.0901	French Language and Literature*
	16.0902	Italian Language and Literature*
	16.0904	Portuguese Language and Literature*
	16.0905	Spanish Language and Literature*
	16.0999	Romance Languages and Literatures, Other*
	16.1101	Arabic Language and Literature
	16.1102	Hebrew Language and Literature*
	16.1199	Middle Eastern Languages and Literatures, Other
62221	16.1201	Classics and Classical Languages and Literatures*
	16.1202	Greek Language and Literature (Ancient and Medieval)*
	16.1203	Latin Language and Literature (Ancient and Medieval)*
	16.1299	Classical and Ancient Near Eastern Languages and Literatures, Other
62231	16.0102	Linguistics*
62241	23.0301	Comparative Literature*
62251	45.0801	History, General*
	45.0802	American (United States) History
	45.0803	European History
	45.0804	History and Philosophy of Science and Technology
	45.0805	Public/Applied History and Archival Administration
	45.0899	History, Other*
62261	45.0301	Archaeology*

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62271	38.0101	Philosophy*

62299	05.0204	Islamic Studies
	05.0205	Jewish/Judaic Studies*
	30.1301	Medieval and Renaissance Studies

626

62600	38.0201	Religion/Religious Studies*
	38.9999	Philosophy and Religion
	39.0101	Biblical and Other Theological Languages and Literatures*
	39.0201	Bible/Biblical Studies*
	39.0301	Missions/Missionary Studies and Missiology*
	39.0401	Religious Education*
	39.0501	Religious/Sacred Music*
	39.0601	Theology/Theological Studies*
	39.0602	Divinity/Ministry (BD, MDiv)
	39.0603	Rabbinical and Talmudic Studies (MHL, Rav)
	39.0604	Pre-Theological/Pre-Ministerial Studies*
	39.0699	Theological and Ministerial Studies, Other*
	39.0701	Pastoral Counseling and Specialized Ministries
	39.9999	Theological Studies and Religious Vocations, Other*

630

63001	45.0101	Social Sciences, General*

63012	45.0601	Economics, General*
	45.0602	Applied and Resource Economics
	45.0603	Econometrics and Quantitative Economics
	45.0604	Development Economics and International Development
	45.0605	International Economics
	45.0699	Economics, Other*

63022	45.0901	International Relations and Affairs*
	45.1001	Political Science, General*
	45.1002	American Government and Politics
	45.1099	Political Science and Government, Other*

63032	45.1101	Sociology*

63042	45.0201	Anthropology*

63052	42.0101	*Psychology, General**
	42.0201	*Clinical Psychology**
	42.0301	*Cognitive Psychology and Psycholinguistics**
	42.0401	*Community Psychology**
	42.0601	*Counseling Psychology**
	42.0701	*Developmental and Child Psychology**
	42.0801	*Experimental Psychology*
	42.0901	*Industrial and Organizational Psychology**
	42.1101	*Physiological Psychology/Psychobiology**
	42.1601	*Social Psychology**
	42.1701	*School Psychology*
	42.9999	*Psychology, Other**
63062	45.0701	*Geography**
	45.0702	*Cartography**
63072	05.0101	*African Studies**
	05.0102	*American Studies/Civilization**
	05.0103	*Asian Studies**
	05.0104	*East Asian Studies**
	05.0105	*Eastern European Area Studies**
	05.0106	*European Studies**
	05.0107	*Latin American Studies**
	05.0108	*Middle Eastern Studies**
	05.0109	*Pacific Area Studies*
	05.0110	*Russian and Slavic Area Studies**
	05.0111	*Scandinavian Area Studies**
	05.0112	*South Asian Studies**
	05.0113	*Southeast Asian Studies*
	05.0114	*Western European Studies**
	05.0115	*Canadian Studies*
	05.0199	*Area Studies, Other**
63099	05.0201	*Afro-American (Black) Studies**
	05.0202	*American Indian/Native American Studies**
	05.0203	*Hispanic-American Studies**
	05.0206	*Asian-American Studies*
	05.0207	*Women's Studies**
	05.0299	*Ethnic and Cultural Studies, Other**
	05.9999	*Area, Ethnic, and Cultural Studies, Other**
	30.0501	*Peace and Conflict Studies**
	45.0501	*Demography/Population Studies*
	45.1201	*Urban Affairs/Studies**
	45.9999	*Social Sciences and History, Other**

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63401   52.0101   Business, General*
             52.0201   Business Administration and Management, General*

>63404   52.0401   Administrativ? Assistant/Secretarial Science, General*
             52.0402   Executive A: stant/Secretary*
             52.0403   Legal Administrative Assistant/Secretary
             52.0404   Medical Administrative Assistant/Secretary
             52.0405   Court Reporter*
             52.0406   Receptionist
             52.0499   Administrative and Secretarial Services, Other

>63408   52.0408   General Office/Clerical and Typing Services*

>63426   52.0407   Information Processing/Data Entry Technician
             52.1201   Management Information Systems and Business Data
                            Processing, General*
             52.1202   Business Computer Programming/Programmer*
             52.1203   Business Systems Analysis and Design*
             52.1204   Business Systems Networking and Telecommunications
             52.1205   Business Computer Facilities Operator
             52.1299   Business Information and Data Processing Services,
                            Other

63432   52.0301   Accounting*
             52.0302   Accounting Technician*
             52.0399   Accounting, Other

>63434   08.0701   Auctioneering
             08.0704   General Buying Operations
             08.0705   General Retailing Operations*
             08.0706   General Selling Skills and Sales Operations*
             08.0708   General Marketing Operations*
             08.0709   General Distribution Operations
             08.0799   General Retailing and Wholesaling Operations and
                            Skills, Other*
             09.0201   Advertising*
             52.1401   Business Marketing and Marketing Management*
             52.1402   Marketing Research*
             52.1403   International Business Marketing*
             52.1499   Marketing Management and Research, Other*

>63436   52.0801   Finance, General*
             52.0803   Banking and Financial Support Services*

	52.0804	*Financial Planning*
	52.0805	*Insurance and Risk Management**
	52.0806	*International Finance*
	52.0807	*Investments and Securities**
	52.0899	*Financial Management and Services, Other**
	52.1601	*Taxation*
63439	08.0301	*Entrepreneurship**
	52.0202	*Purchasing, Procurement, and Contracts Management**
	52.0203	*Logistics and Materials Management**
	52.0204	*Office Supervision and Management**
	52.0205	*Operations Management and Supervision**
	52.0299	*Business Administration and Management, Other**
	52.0501	*Business Communications*
	52.0601	*Business/Managerial Economics**
	52.0701	*Enterprise Management and Operation, General**
	52.0702	*Franchise Operation*
	52.0799	*Enterprise Management and Operation, Other*
	52.0901	*Hospitality Administration/Management**
	52.0902	*Hotel/Motel and Restaurant Management**
	52.0903	*Travel and Tourism Management**
	52.0999	*Hospitality Services Management, Other**
	52.1001	*Human Resources Management**
	52.1002	*Labor/Personnel Relations and Studies**
	52.1003	*Organizational Behavior Studies*
	52.1099	*Human Resources Management, Other*
	52.1101	*International Business**
	52.1301	*Management Science**
	52.1302	*Business Statistics*
	52.1399	*Business Quantitative Methods and Management Science, Other**
	52.1501	*Real Estate**
	52.9999	*Business Management and Administrative Services, Other**
63452	44.0401	*Public Administration**
	44.0501	*Public Policy Analysis**
	44.9999	*Public Administration and Services, Other**
	52.0808	*Public Finance*
63462	13.0401	*Education Administration and Supervision, General**
	13.0402	*Administration of Special Education*
	13.0403	*Adult and Continuing Education Administration*
	13.0404	*Educational Supervision*
	13.0405	*Elementary, Middle, and Secondary Education*

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Administration

13.0406	*Higher Education Administration*
13.0407	*Community and Junior College Education*
13.0499	*Education Administration and Supervision, Other*
51.0701	*Health System/Health Services Administration**
51.0702	*Hospital/Health Facilities Administration**
51.0705	*Medical Office Management*
51.0706	*Medical Records Administration**
51.0707	*Medical Records Technology/Technician*
51.0708	*Medical Transcription*
51.0799	*Health and Medical Administrative Services, Other**
52.0206	*Non-Profit and Public Management*

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63801

22.0101	*Law (LLB, JD)*
22.0102	*Pre-Law Studies**
22.0103	*Paralegal/Legal Assistant**

63812   N/A

63899

22.0104	*Juridical Science/Legal Specialization (LLM, MCL, JSD/SJD)*
22.0199	*Law and Legal Studies, Other**

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64202

26.0101	*Biology, General**
26.0202	*Biochemistry**
26.0203	*Biophysics*
26.0301	*Botany, General**
26.0305	*Plant Pathology*
26.0307	*Plant Physiology*
26.0399	*Botany, Other*
26.0401	*Cell Biology**
26.0402	*Molecular Biology**
26.0499	*Cell and Molecular Biology, Other**
26.0501	*Microbiology/Bacteriology**
26.0601	*Anatomy**
26.0603	*Ecology**
26.0607	*Marine/Aquatic Biology**
26.0608	*Neuroscience**
26.0609	*Nutritional Sciences**

	26.0610	*Parasitology*
	26.0611	*Radiation Biology/Radiobiology*
	26.0612	*Toxicology**
	26.0613	*Genetics, Plant and Animal**
	26.0614	*Biometrics**
	26.0615	*Biostatistics*
	26.0616	*Biotechnology Research*
	26.0617	*Evolutionary Biology*
	26.0618	*Biological Immunology*
	26.0619	*Virology*
	26.0699	*Miscellaneous Biological Specializations, Other**
	26.0701	*Zoology, General**
	26.0702	*Entomology**
	26.0704	*Pathology, Human and Animal*
	26.0705	*Pharmacology, Human and Animal*
	26.0706	*Physiology, Human and Animal**
	26.0799	*Zoology, Other*
	26.9999	*Biological Sciences/Life Sciences, Other**
64212	40.0501	*Chemistry, General**
	40.0502	*Analytical Chemistry*
	40.0503	*Inorganic Chemistry*
	40.0504	*Organic Chemistry*
	40.0505	*Medicinal/Pharmaceutical Chemistry*
	40.0506	*Physical and Theoretical Chemistry**
	40.0507	*Polymer Chemistry**
	40.0599	*Chemistry, Other*
64222	40.0601	*Geology**
	40.0602	*Geochemistry*
	40.0603	*Geophysics and Seismology**
	40.0604	*Paleontology*
	40.0699	*Geological and Related Sciences, Other**
64232	40.0801	*Physics, General**
	40.0802	*Chemical and Atomic/Molecular Physics*
	40.0804	*Elementary Particle Physics*
	40.0805	*Plasma and High-Temperature Physics*
	40.0806	*Nuclear Physics*
	40.0807	*Optics**
	40.0808	*Solid State and Low-Temperature Physics*
	40.0809	*Acoustics*
	40.0810	*Theoretical and Mathematical Physics*
	40.0899	*Physics, Other**

64242	40.0201	*Astronomy**
	40.0301	*Astrophysics**
64252	40.0401	*Atmospheric Sciences and Meteorology**
64262	40.0702	*Oceanography**
64299	30.0101	*Biological and Physical Sciences**
	30.0601	*Systems Science and Theory**
	30.1001	*Biopsychology*
	40.0101	*Physical Sciences, General**
	40.0701	*Metallurgy*
	40.0703	*Earth and Planetary Sciences**
	40.0799	*Miscellaneous Physical Sciences, Other**
	40.9999	*Physical Sciences, Other**

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64601	27.0101	*Mathematics**
64611	27.0501	*Mathematical Statistics**
64621	52.0802	*Actuarial Science**
64639	27.0301	*Applied Mathematics, General**
	27.0302	*Operations Research**
	27.0399	*Applied Mathematics, Other* '
	27.9999	*Mathematics, Other**
	30.0801	*Mathematics and Computer Science**
64641	11.0101	*Computer and Information Sciences, General**
	11.0201	*Computer Programming**
	11.0301	*Data Processing Technology/Technician**
	11.0401	*Information Sciences and Systems**
	11.0501	*Computer Systems Analysis**
	11.0701	*Computer Science**
	11.9999	*Computer and Information Sciences, Other**

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65002	51.0301	*Community Health Liason**
	51.2201	*Public Health, General**
	51.2202	*Environmental Health** '

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	51.2203	*Epidemiology*
	51.2204	*Health and Medical Biostatistics*
	51.2205	*Health Physics/Radiologic Health*
	51.2206	*Occupational Health and Industrial Hygiene*
	51.2207	*Public Health Education and Promotion**
	51.2299	*Public Health, Other**
65006	51.0807	*Physician Assistant**
	51.1102	*Pre-Medicine Studies**
	51.1201	*Medicine (MD)*
	51.1401	*Medical Clinical Sciences (MS, PhD)*
	51.1901	*Osteopathic Medicine (DO)*
65008	51.0803	*Occupational Therapy Assistant*
	51.0806	*Physical Therapy Assistant*
	51.2301	*Art Therapy**
	51.2302	*Dance Therapy*
	51.2303	*Hypnotherapy*
	51.2304	*Movement Therapy*
	51.2305	*Music Therapy**
	51.2306	*Occupational Therapy**
	51.2307	*Orthotics/Prosthetics**
	51.2308	*Physical Therapy**
	51.2309	*Recreational Therapy**
	51.2310	*Vocational Rehabilitation Counseling**
	51.2399	*Rehabilitation/Therapeutic Services, Other**
65012	51.1601	*Nursing (RN Training)**
	51.1602	*Nursing Administration**
	51.1603	*Nursing, Adult Health*
	51.1604	*Nursing Anesthetist**
	51.1605	*Nursing, Family Practice*
	51.1606	*Nursing, Maternal/Child Health*
	51.1608	*Nursing Science*
	51.1609	*Nursing, Pediatric*
	51.1610	*Nursing, Psychiatric/Mental Health*
	51.1611	*Nursing, Public Health*
	51.1612	*Nursing, Surgical*
	51.1613	*Practical Nurse (LPN Training)*
	51.1614	*Nurse Assistant/Aide*
	51.1615	*Home Health Aide*
	51.1699	*Nursing, Other**
>65015	51.1607	*Nursing Midwifery*

>65017	51.0907	*Medical Radiologic Technology/Technician**
>65019	51.0901	*Cardiovascular Technology/Technician**
	51.0902	*Electrocardiograph Technology/Technician*
	51.0903	*Electroencephalograph Technology/Technician*
	51.0904	*Emergency Medical Technology/Technician**
	51.0905	*Nuclear Medical Technology/Technician**
	51.0906	*Perfusion Technology/Technician*
	51.0908	*Respiratory Therapy Technology/Technician**
	51.0909	*Surgical/Operating Room Technician*
	51.0910	*Diagnostic Medical Sonography**
	51.0999	*Health and Medical Diagnostic and Treatment Services, Other**
65030	51.0802	*Medical Laboratory Assistant*
	51.1001	*Blood Bank Technology/Technician*
	51.1002	*Cytotechnologist**
	51.1003	*Hematology Technology/Technician*
	51.1004	*Medical Laboratory Technician**
	51.1005	*Medical Technology**
	51.1006	*Optometric/Ophthalmic Laboratory Technician*
	51.1099	*Health and Medical Laboratory Technologists/Technicians, Other**
65042	51.0401	*Dentistry (DDS, DMD)*
	51.0501	*Dental Clinical Sciences/Graduate Dentistry (MS, PhD)*
	51.1101	*Pre-Dentistry Studies**
>65046	51.0601	*Dental Assistant*
	51.0602	*Dental Hygienist**
	51.0603	*Dental Laboratory Technician*
	51.0699	*Dental Services, Other*
65052	51.0805	*Pharmacy Technician/Assistant*
	51.1103	*Pre-Pharmacy Studies**
	51.2001	*Pharmacy (BPharm, PharmD)*
	51.2002	*Pharmacy Administration and Pharmaceutics*
	51.2003	*Medical Pharmacology and Pharmaceutical Sciences*
	51.2099	*Pharmacy, Other**
65062	51.0804	*Ophthalmic Medical Assistant*
	51.1701	*Optometry (OD)*
	51.1801	*Opticianry/Dispensing Optician*
	51.1802	*Optical Technician/Assistant*
	51.1803	*Ophthalmic Medical Technologist*

	51.1804	Orthoptics
	51.1899	Ophthalmic/Optometric Services, Other*
65099	51.0101	Chiropractic (DC, DCM)
	51.0201	Communication Disorders, General*
	51.0202	Audiology/Hearing Sciences*
	51.0203	Speech-Language Pathology*
	51.0204	Speech-Language Pathology and Audiology*
	51.0205	Sign Language Interpreter*
	51.0299	Communication Disorders Sciences and Services, Other*
	51.0703	Health Unit Coordinator/Ward Clerk
	51.0704	Health Unit Manager/Ward Supervisor
	51.0801	Medical Assistant
	51.0899	Health and Medical Assistants, Other
	51.1199	Health and Medical Preparatory Programs, Other*
	51.1301	Medical Anatomy
	51.1302	Medical Biochemistry
	51.1303	Medical Biomathematics and Biometrics
	51.1304	Medical Physics/Biophysics
	51.1305	Medical Cell Biology
	51.1306	Medical Genetics
	51.1307	Medical Immunology
	51.1308	Medical Microbiology
	51.1309	Medical Molecular Biology
	51.1310	Medical Neurobiology
	51.1311	Medical Nutrition
	51.1312	Medical Pathology
	51.1313	Medical Physiology
	51.1314	Medical Toxicology
	51.1399	Basic Medical Sciences, Other*
	51.1501	Alcohol/Drug Abuse Counseling*
	51.1502	Psychiatric/Mental Health Services Technician*
	51.1503	Clinical and Medical Social Work*
	51.1599	Mental Health Services, Other*
	51.2101	Podiatry (DPM, DP, PodD)
	51.2601	Health Aide
	51.2701	Acupuncture and Oriental Medicine*
	51.2702	Medical Dietician
	51.2703	Medical Illustrating*
	51.2704	Naturopathic Medicine
	51.2705	Psychoanalysis
	51.9999	Health Professions and Related Sciences, Other*

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| > 65212 | 01.0401 | Agricultural and Food Products Processing Operations and Management |
| | 12.0506 | Meatcutter |

> 65216	46.0101	Mason and Tile Setter
	46.0201	Carpenter
	46.0301	Electrical and Power Transmission Installer, General
	46.0302	Electrician
	46.0303	Lineworker
	46.0399	Electrical and Power Transmission Installer, Other
	46.0401	Building/Property Maintenance and Manager
	46.0403	Construction/Building Inspector
	46.0408	Painter and Wall Coverer
	46.0499	Construction and Building Finishers and Managers, Other*
	46.0501	Plumber and Pipefitter
	46.9999	Construction Trades, Other

> 65222	47.0101	Electrical and Electronics Equipment Installer and Repairer, General
	47.0102	Business Machine Repairer
	47.0103	Communication Systems Installer and Repairer
	47.0104	Computer Installer and Repairer
	47.0105	Industrial Electronics Installer and Repairer
	47.0106	Major Appliance Installer and Repairer
	47.0199	Electrical and Electronics Equipment Installer and Repairer, Other

> 65232	48.0501	Machinist/Machine Technologist
	48.0503	Machine Shop Assistant
	48.0506	Sheet Metal Worker
	48.0507	Tool and Die Maker/Technologist
	48.0508	Welder/Welding Technologist
	48.0599	Precision Metal Workers, Other

> 65242	47.0302	Heavy Equipment Maintenance and Repairer
	47.0303	Industrial Machinery Maintenance and Repairer
	47.0399	Industrial Equipment Maintenance and Repairers, Other
	47.0401	Instrument Calibration and Repairer
	47.0402	Gunsmith
	47.0403	Locksmith and Safe Repairer
	47.0404	Musical Instrument Repairer
	47.0408	Watch, Clock and Jewelry Repairer

	47.0499	Miscellaneous Mechanics and Repairers, Other
	47.0501	Stationary Energy Sources Installer and Operator
	47.0603	Auto/Automotive Body Repairer
	47.0604	Auto/Automotive Mechanic/Technician
	47.0605	Diesel Engine Mechanic and Repairer
	47.0606	Small Engine Mechanic and Repairer
	47.0607	Aircraft Mechanic/Technician, Airframe
	47.0608	Aircraft Mechanic/Technician, Powerplant
	47.0609	Aviation Systems and Avionics Maintenance Technologist/Technician
	47.0610	Bicycle Mechanic and Repairer
	47.0611	Motorcycle Mechanic and Repairer
	47.0699	Vehicle and Mobile Equipment Mechanics and Repairers, Other
	47.9999	Mechanics and Repairers, Other
	49.0306	Marine Maintenance and Ship Repairer
>65262	48.0701	Woodworkers, General
	48.0702	Furniture Designer and Maker
	48.0703	Cabinet Maker and Millworker
	48.0799	Woodworkers, Other
>65276	20.0301	Clothing, Apparel, and Textile Workers and Managers, General
	20.0303	Commercial Garment and Apparel Worker
	20.0305	Custom Tailor
	20.0306	Fashion and Fabric Consultant
	20.0399	Clothing, Apparel, and Textile Workers and Managers, Other
>65278	48.0201	Graphic and Printing Equipment Operator, General*
	48.0205	Mechanical Typesetter and Composer
	48.0206	Lithographer and Platemaker
	48.0208	Printing Press Operator
	48.0211	Computer Typography and Composition Equipment Operator
	48.0212	Desktop Publishing Equipment Operator
	48.0299	Graphic and Printing Equipment Operators, Other*
>65284	41.0101	Biological Technology/Technician*
	41.0301	Chemical Technology/Technician*
	41.0399	Physical Science Technology/Technicians, Other
	41.9999	Science Technology/Technicians, Other*
>65299	48.9999	Precision Production Trades, Other

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>65402	15.1102	*Surveying**
>65406	14.2901	*Engineering Design*
	48.0101	*Drafting, General**
	48.0102	*Architectural Drafting*
	48.0103	*Civil/Structural Drafting*
	48.0104	*Electrical/Electronics Drafting*
	48.0105	*Mechanical Drafting*
	48.0199	*Drafting, Other*
65412	14.0601	*Ceramic Sciences and Engineering**
	14.0701	*Chemical Engineering**
	14.3201	*Polymer/Plastics Engineering**
	15.0607	*Plastics Technology/Technician**
65416	14.0801	*Civil Engineering, General**
	14.0802	*Geotechnical Engineering*
	14.0804	*Transportation and Highway Engineering*
	14.0805	*Water Resources Engineering*
	14.0899	*Civil Engineering, Other**
	14.2401	*Ocean Engineering**
	15.0201	*Civil Engineering/Civil Technology/Technician**
	14.1001	*Construction/Building Technology/Technician**
65422	14.0901	*Computer Engineering**
	14.1001	*Electrical, Electronics, and Communications Engineering**
	15.0301	*Computer Engineering Technology/Technician**
	15.0303	*Electrical, Electronic, and Communications Engineering Technology/Technician**
	15.0399	*Electrical and Electronic Engineering-Related Technologies/Technicians, Other**
	15.0402	*Computer Maintenance Technology/Technician*
	15.0403	*Electromechanical Technology/Technician**
	15.0404	*Instrumentation Technology/Technician*
	15.0405	*Robotics Technology/Technician**
	15.0499	*Electromechanical Instrumentation and Maintenance Technologies/Technicians*
65426	14.1701	*Industrial/Manufacturing Engineering**
	14.3001	*Engineering/Industrial Management**
	15.0603	*Industrial/Manufacturing Technology/Technician**

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	15.0699	Industrial Production Technologies/Technicians, Other*
	15.0701	Occupational Safety and Health Technology/Technician*
	15.0702	Quality Control Technology/Technician
	15.0799	Quality Control and Safety Technologies/Technicians, Other
65432	14.2001	Metallurgical Engineering*
	15.0611	Metallurgical Technology/Technician
65436	14.1501	Geological Engineering*
	14.2101	Mining and Mineral Engineering*
	15.0901	Mining Technology/Technician*
	15.0999	Mining and Petroleum Technologies/Technicians, Other
65442	14.0201	Aerospace, Aeronautical, and Astronautical Engineering*
	14.1901	Mechanical Engineering*
	14.2201	Naval Architecture and Marine Engineering*
	15.0801	Aeronautical and Aerospace Engineering Technology/Technician*
	15.0803	Automotive Engineering Technology/Technician*
	15.0805	Mechanical Engineering/Mechanical Technology/Technician*
	15.0899	Mechanical Engineering-Related Technologies/Technicians, Other*
	15.1103	Hydraulic Technology/Technician
65453	14.0301	Agricultural Engineering*
65463	N/A	
65499	14.0101	Engineering, General*
	14.0501	Bioengineering and Biomedical Engineering*
	14.1101	Engineering Mechanics*
	14.1201	Engineering Physics*
	14.1301	Engineering Science*
	14.1401	Environmental/Environmental Health Engineering*
	14.1601	Geophysical Engineering*
	14.1801	Materials Engineering*
	14.2301	Nuclear Engineering*
	14.2501	Petroleum Engineering*
	14.2701	Systems Engineering*
	14.2801	Textile Sciences and Engineering*
	14.3101	Materials Science
	14.9999	Engineering, Other*

15.0304	Laser and Optical Technology/Technician	
15.0401	Biomedical Engineering-Related Technology/Technician	
15.0501	Heating, Air Conditioning, and Refrigeration Technology/Technician	
15.0503	Energy Management and Systems Technology/Technician*	
15.0505	Solar Technology/Technician	
15.0506	Water Quality and Wastewater Treatment Technology/Technician*	
15.0507	Environmental and Pollution Control Technology/Technician*	
15.0599	Environmental Control Technologies/Technicians, Other*	
15.0903	Petroleum Technology/Technician	
15.1101	Engineering-Related Technology/Technician, General*	
15.9999	Engineering-Related Technologies/Technicians, Other*	
41.0204	Industrial Radiologic Technology/Technician	
41.0205	Nuclear/Nuclear Power Technology/Technician	
41.0299	Nuclear and Industrial Radiologic Technologies/Technicians, Other	

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65801	04.0201	Architecture*
65802	04.0501	Interior Architecture*
	14.0401	Architectural Engineering*
	14.0803	Structural Engineering
	15.0101	Architectural Engineering Technology/Technician*
65812	04.0601	Landscape Architecture*
65822	04.0301	City/Urban, Community, and Regional Planning*
	04.0401	Architectural Environmental Design*
	04.0701	Architectural Urban Design and Planning
>65899	04.9999	Architecture and Related Programs, Other*
	30.1201	Historic Preservation, Conservation, and Architectural History

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66201	**01.0101**	*Agricultural Business and Management, General**
	01.0301	*Agricultural Production Workers and Managers, General**
	02.0101	*Agriculture/Agricultural Sciences, General**
66203	**01.0302**	*Agricultural Animal Husbandry and Production Management**
	01.0303	*Aquaculture Operations and Production Management**
	01.0399	*Agricultural Production Workers and Managers, Other*
	02.0201	*Animal Sciences, General**
	02.0202	*Agricultural Animal Breeding and Genetics*
	02.0203	*Agricultural Animal Health**
	02.0204	*Agricultural Animal Nutrition*
	02.0205	*Agricultural Animal Physiology*
	02.0206	*Dairy Science**
	02.0209	*Poultry Science**
	02.0299	*Animal Sciences, Other**
66206	**01.0601**	*Horticulture Services Operations and Management, General**
	01.0603	*Ornamental Horticulture Operations and Management**
	01.0604	*Greenhouse Operations and Management*
	01.0605	*Landscaping Operations and Management**
	01.0606	*Nursery Operations and Management*
	01.0607	*Turf Management*
	01.0699	*Horticulture Services Operations and Management, Other*
	02.0403	*Horticulture Science**
66208	**01.0304**	*Crop Production Operations and Management*
	02.0401	*Plant Sciences, General**
	02.0402	*Agronomy and Crop Science**
	02.0405	*Plant Breeding and Genetics*
	02.0406	*Agricultural Plant Pathology*
	02.0407	*Agricultural Plant Physiology*
	02.0408	*Plant Protection (Pest Management)**
	02.0409	*Range Science and Management**
	02.0499	*Plant Sciences, Other**
66212	**01.0102**	*Agricultural Business/Agribusiness Operations**
	01.0103	*Agricultural Economics**
	01.0104	*Farm and Ranch Management**
	01.0199	*Agricultural Business and Management, Other**

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66222	02.0301	*Food Sciences and Technology**
66226	02.0501	*Soil Sciences**
66232	51.0808	*Veterinarian Assistant/Animal Health Technician**
	51.1104	*Pre-Veterinary Studies**
	51.2401	*Veterinary Medicine (DVM)*
	51.2501	*Veterinary Clinical Sciences (MS, PhD)*
66249	01.0201	*Agricultural Mechanization, General**
	01.0204	*Ag cultural Power Machinery Operator*
	01.0299	*Agricultural Mechanization, Other**
	01.0501	*Agricultural Supplies Retailing and Wholesaling*
	01.0505	*Animal Trainer*
	01.0507	*Equestrian/Equine Studies, Horse Management and Training**
	01.0599	*Agricultural Supplies and Related Services, Other*
	01.0701	*International Agriculture*
	01.9999	*Agricultural Business and Production, Other**
	02.0102	*Agricultural Extension*
	02.9999	*Agriculture/Agricultural Sciences, Other**
66262	03.0401	*Forest Harvesting and Production Technology/Technician**
	03.0404	*Forest Products Technology/Technician**
	03.0405	*Logging/Timber Harvesting*
	03.0499	*Forest Production and Processing, Other**
	03.0501	*Forestry, General**
	03.0502	*Forestry Sciences**
	03.0506	*Forest Management**
	03.0509	*Wood Sciences and Pulp/Paper Technology**
	03.0599	*Forestry and Related Sciences, Other**
	03.0601	*Wildlife and Wildlands Management**
66272	03.0301	*Fishing and Fisheries Sciences and Management**
	49.0303	*Fishing Technology/Commercial Fishing*
666		
66601	19.0101	*Home Economics, General**
66612	19.0401	*Family Resource Management Studies**
	19.0402	*Consumer Economics and Science**
	19.0499	*Family/Consumer Resource Management, Other*

	19.0501	*Foods and Nutrition Studies, General**
	19.0502	*Foods and Nutrition Science**
	19.0503	*Dietetics/Human Nutritional Services**
	19.0505	*Food Systems Administration*
	19.0599	*Foods and Nutrition Studies, Other**
	20.0401	*Institutional Food Workers and Administrators, General**
	20.0404	*Dietician Assistant*
	20.0409	*Institutional Food Services Administrator**
	20.0499	*Institutional Food Workers and Administrators, Other*

>66622
	19.0701	*Individual and Family Development Studies, General**
	19.0706	*Child Growth, Care, and Development Studies**
	19.0799	*Individual and Family Development Studies, Other**
	20.0201	*Child Care and Guidance Workers and Managers, General**
	20.0202	*Child Care Provider/Assistant*
	20.0203	*Child Care Services Manager*
	20.0299	*Child Care and Guidance Workers and Managers, Other*

66632
	19.0601	*Housing Studies, General**
	19.0603	*Interior Environments**
	19.0699	*Housing Studies, Other**
	19.0901	*Clothing/Apparel and Textile Studies**
	20.0501	*Home Furnishings and Equipment Installers and Consultants, General**
	20.0502	*Window Treatment Maker and Installer*
	20.0599	*Home Furnishings and Equipment Installers and Consultants, Other**

66699
	19.0201	*Business Home Economics**
	19.0202	*Home Economics Communications*
	19.9999	*Home Economics, Other**
	20.0601	*Custodial, Housekeeping, and Home Services Workers and Managers, General**
	20.0602	*Elder Care Provider/Companion*
	20.0606	*Homemaker's Aide*
	20.0699	*Custodial, Housekeeping, and Home Services Workers and Managers, Other*
	20.9999	*Vocational Home Economics, Other*

\>670

>67002	49.0102	Aircraft Pilot and Navigator (Commercial)*
	49.0106	Flight Attendant
	49.0107	Aircraft Pilot (Private)

| >67004 | 49.0309 | Marine Science/Merchant Marine Officer* |
| | 49.0399 | Water Transportation Workers, Other |

>67029	49.0101	Aviation and Airway Science*
	49.0104	Aviation Management*
	49.0105	Air Traffic Controller*
	49.0199	Air Transportation Workers, Other*
	49.0304	Diver (Professional)
	49.9999	Transportation and Material Moving Workers, Other

\>678

>67812	12.0401	Cosmetic Services, General
	12.0402	Barber/Hairstylist
	12.0403	Cosmetologist
	12.0404	Electrolysis Technician
	12.0405	Massage
	12.0406	Make-Up Artist
	12.0499	Cosmetic Services, Other

>67822	08.0901	Hospitality and Recreation Marketing Operations, General
	08.0902	Hotel/Motel Services Marketing Operations
	08.0903	Recreation Products/Services Marketing Operations
	08.0906	Food Sales Operations
	08.0999	Hospitality and Recreation Marketing Operations, Other
	12.0504	Food and Beverage/Restaurant Operations Manager*
	20.0604	Custodian/Caretaker
	20.0605	Executive Housekeeper

>67862	08.0101	Apparel and Accessories Marketing Operations, General*
	08.0102	Fashion Merchandising*
	08.0103	Fashion Modeling
	08.0199	Apparel and Accessories Marketing Operations, Other
	08.0204	Business Services Marketing Operations
	08.0205	Personal Services Marketing Operations
	08.0299	Business and Personal Services Marketing Operations,

		Other*
	08.0401	Financial Services Marketing Operations
	08.0503	Floristry Marketing Operations
	08.0601	Food Products Retailing and Wholesaling Operations
	08.0809	Home Products Marketing Operations
	08.0810	Office Products Marketing Operations
	08.0899	Home and Office Products Marketing Operations, Other
	08.1001	Insurance Marketing Operations
	08.1203	Vehicle Parts and Accessories Marketing Operations
	08.1208	Vehicle Marketing Operations
	08.1209	Petroleum Products Retailing Operations
	08.1299	Vehicle and Petroleum Products Marketing Operations, Other
	08.1301	Health Products and Services Marketing Operations
	08.9999	Marketing Operations/Marketing and Distribution, Other*

>67872	08.1104	Tourism Promotion Operations*
	08.1105	Travel Services Marketing Operations
	08.1199	Tourism and Travel Services Marketing Operations, Other*

>67899	12.0203	Card Dealer
	12.0204	Umpires and Other Sports Officials
	12.0299	Gaming and Sports Officiating Services, Other
	12.0301	Funeral Services and Mortuary Science*
	12.9999	Personal and Miscellaneous Services, Other

684

68402	09.0401	Journalism*
	09.0403	Mass Communications*
	09.0499	Journalism and Mass Communications, Other*

68404	09.0402	Broadcast Journalism*
	09.0701	Radio and Television Broadcasting*
	10.0104	Radio and Television Broadcasting Technology/Technician*

68407	09.0501	Public Relations and Organizational Communications*

68409	09.0101	Communications, General*
	09.9999	Communications, Other*
	10.0101	Educational/Instructional Media Technology/Technician

299

	10.0199	Communications Technologies/Technicians, Other*
68422	25.0101	Library Science/Librarianship*
	25.0301	Library Assistant
	25.9999	Library Science, Other
>68425	30.1401	Museology/Museum Studies

689

>68912	43.0102	Corrections/Correctional Administration*
	43.0103	Criminal Justice/Law Enforcement Administration*
	43.0104	Criminal Justice Studies*
	43.0106	Forensic Technology/Technician*
	43.0107	Law Enforcement/Police Science*
	43.0109	Security and Loss Prevention Services*
	43.0199	Criminal Justice and Corrections, Other*
68913	45.0401	Criminology*
>68915	43.0201	Fire Protection and Safety Technology/Technician*
	43.0202	Fire Services Administration*
	43.0203	Fire Science/Firefighting
	43.0299	Fire Protection, Other
>68917	29.0101	Military Technologies
>68919	43.9999	Protective Services, Other*
68932	19.0301	Family and Community Studies*
	19.0703	Family and Marriage Counseling
	19.0704	Family Life and Relations Studies*
	19.0705	Gerontological Services*
	44.0201	Community Organization, Resources, and Services*
	44.0701	Social Work*
68942	N/A	
68952	03.0101	Natural Resources Conservation, General*
	03.0102	Environmental Science/Studies*
	03.0201	Natural Resources Management and Policy*
	03.0203	Natural Resources Law Enforcement and Protective Services
	03.0299	Natural Resources Management and Protective Services,

		Other
	03.9999	*Conservation and Renewable Natural Resources, Other**

68962	31.0101	*Parks, Recreation, and Leisure Studies**
	31.0301	*Parks, Recreation, and Leisure Facilities Management**
	31.0501	*Health and Physical Education, General**
	31.0502	*Adapted Physical Education/Therapeutic Recreation*
	31.0503	*Athletic Training and Sports Medicine**
	31.0504	*Sport and Fitness Administration/Management**
	31.0505	*Exercise Sciences/Physiology and Movement Studies**
	31.0506	*Socio-Psychological Sports Studies*
	31.0599	*Health and Physical Education/Fitness, Other**
	31.9999	*Parks. Recreation, Leisure, and Fitness Studies, Other**

68972	N/A	

68999	30.1101	*Gerontology**
	30.1501	*Science, Technology, and Society**
	30.9999	*Multi-/Interdisciplinary Studies, Other**

7. Education at the Third Level, Second Stage of the Type that Leads to a Post-Graduate University Degree or Equivalent

ISCED	IPEDS	
7	**Mas**	*Master's Degree*
	PMC	*Post-Master's Certificate*
	Doc	*Doctor's Degree*
	1PD	*First-Professional Degree*
	1PC	*First-Professional Certificate (Post-Degree)*

ISCED	CIP	
>701		
>70100	24.0101	*Liberal Arts and Sciences/Liberal Studies**
	24.0102	*General Studies**
	24.0199	*Liberal Arts and Sciences/General Studies and Humanities, Other**
714		
71401	13.0101	*Education, General**
	13.1202	*Elementary Teacher Education**
	13.1203	*Junior High/Intermediate/Middle School Teacher Education**
	13.1205	*Secondary Teacher Education**
	13.1206	*Teacher Education, Multiple Levels**
	13.1299	*General Teacher Education, Other**
	13.1501	*Teacher Assistant/Aide*
71404	13.1302	*Art Teacher Education**
	13.1305	*English Teacher Education**
	13.1306	*Foreign Languages Teacher Education**
	13.1307	*Health Teacher Education**
	13.1311	*Mathematics Teacher Education**
	13.1312	*Music Teacher Education**
	13.1314	*Physical Education Teaching and Coaching**
	13.1315	*Reading Teacher Education**
	13.1316	*Science Teacher Education, General**
	13.1317	*Social Science Teacher Education**

	13.1318	Social Studies Teacher Education*
	13.1321	Computer Teacher Education*
	13.1322	Biology Teacher Education*
	13.1323	Chemistry Teacher Education
	13.1324	Drama and Dance Teacher Education
	13.1325	French Language Teacher Education
	13.1326	German Language Teacher Education
	13.1328	History Teacher Education*
	13.1329	Physics Teacher Education
	13.1330	Spanish Language Teacher Education
	13.1331	Speech Teacher Education
	13.1401	Teaching English as a Second Language/Foreign Language*

71408	13.1301	Agricultural Teacher Education*
	13.1303	Business Teacher Education*
	13.1304	Driver and Safety Teacher Education*
	13.1308	Home Economics Teacher Education*
	13.1309	Technology/Industrial Arts Teacher Education*
	13.1310	Marketing Operations/Marketing and Distribution Teacher Education*
	13.1319	Technical Teacher Education*
	13.1320	Trade and Industrial Teacher Education*
	13.1327	Health Occupations Teacher Education

71412	13.1204	Pre-Elementary/Early Childhood/Kindergarten Teacher Education*

71416	13.1201	Adult and Continuing Teacher Education*

71422	13.1001	Special Education, General*
	13.1003	Education of the Deaf and Hearing Impaired*
	13.1005	Education of the Emotionally Handicapped*
	13.1006	Education of the Mentally Handicapped*
	13.1007	Education of the Multiple Handicapped*
	13.1008	Education of the Physically Handicapped*
	13.1009	Education of the Blind and Visually Handicapped
	13.1011	Education of the Specific Learning Disabled*
	13.1012	Education of the Speech Impaired*
	13.1013	Education of the Autistic
	13.1099	Special Education, Other*

71432	N/A	
71472	13.0301	Curriculum and Instruction*
	13.0601	Educational Evaluation and Research*
	13.0603	Educational Statistics and Research Methods*
	13.0604	Educational Assessment, Testing, and Measurement*
	13.0699	Educational Evaluation, Research, and Statistics, Other
	13.0701	International and Comparative Education*
	13.0802	Educational Psychology*
	13.0901	Social and Philosophical Foundations of Education*
71499	13.0201	Bilingual/Bicultural Education*
	13.0501	Educational/Instructional Media Design*
	13.1004	Education of the Gifted and Talented*
	13.1101	Counselor Education/Counseling and Guidance Services*
	13.1102	College/Postsecondary Student Counseling and Personnel Services*
	13.1399	Teacher Education, Specific Academic and Vocational Programs, Other*
	13.9999	Education, Other*
718		
>71801	50.0401	Design and Visual Communications*
	50.0701	Art, General*
	50.0702	Fine/Studio Arts*
71802	50.0703	Art History, Criticism, and Conservation*
71804	50.0705	Drawing*
	50.0708	Painting*
	50.0710	Printmaking*
71808	50.0709	Sculpture*
>71812	50.0201	Crafts, Folk Art, and Artisanry
	50.0711	Ceramic Arts and Ceramics*
	50.0712	Fiber, Textile, and Weaving Arts*
	50.0713	Metal and Jewelry Arts*
71822	50.0901	Music, General*
	50.0902	Music History and Literature*
	50.0903	Music — General Performance*

	50.0904	*Music Theory and Composition**
	50.0905	*Musicology and Ethnomusicology*
	50.0906	*Music Conducting**
	50.0907	*Music — Piano and Organ Performance**
	50.0908	*Music — Voice and Choral/Opera Performance**
	50.0909	*Music Business Management and Merchandising*
	50.0999	*Music, Other**
71832	50.0501	*Drama/Theatre Arts, General**
	50.0502	*Technical Theatre/Theatre Design and Stagecraft**
	50.0503	*Acting and Directing**
	50.0504	*Playwriting and Screenwriting*
	50.0505	*Drama/Theatre Literature, History, and Criticism*
	50.0599	*Drama/Theatre Arts and Stagecraft, Other**
>71842	10.0103	*Photographic Technology/Technician*
	50.0406	*Commercial Photography*
	50.0601	*Film/Cinema Studies**
	50.0602	*Film-Video Making/Cinematography and Production**
	50.0605	*Photography**
	50.0699	*Film/Video and Photographic Arts, Other**
71852	50.0408	*Interior Design*
71899	50.0101	*Visual and Performing Arts**
	50.0301	*Dance**
	50.0402	*Graphic Design, Commercial Art, and Illustration**
	50.0404	*Industrial Design**
	50.0407	*Fashion Design and Illustration*
	50.0499	*Design and Applied Arts, Other**
	50.0704	*Arts Management**
	50.0706	*Intermedia*
	50.0799	*Fine Arts and Art Studies, Other**
	50.9999	*Visual and Performing Arts, Other**
722		
>72201	24.0103	*Humanities/Humanistic Studies**
>72202	16.0103	*Foreign Language Interpretation and Translation*
>722C3	16.0101	*Foreign Languages and Literatures, General**
	16.9999	*Foreign Languages and Literatures, Other**

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72211	23.0101	English Language and Literature, General*
	23.0401	English Composition
	23.0501	English Creative Writing*
	23.0701	American Literature (United States)
	23.0801	English Literature (British and Commonwealth)*
	23.1001	Speech and Rhetorical Studies*
	23.1101	English Technical and Business Writing*
	23.9999	English Language and Literature/Letters, Other*
72215	16.0301	Chinese Language and Literature*
	16.0302	Japanese Language and Literature*
	16.0399	East and Southeast Asian Languages and Literatures, Other*
	16.0402	Russian Language and Literature*
	16.0403	Slavic Languages and Literatures (Other Than Russian)*
	16.0499	East European Languages and Literatures, Other
	16.0501	German Language and Literature*
	16.0502	Scandinavian Languages and Literatures
	16.0599	Germanic Languages and Literatures, Other
	16.0601	Greek Language and Literature (Modern)
	16.0703	South Asian Languages and Literatures
	16.0901	French Language and Literature*
	16.0902	Italian Language and Literature*
	16.0904	Portuguese Language and Literature
	16.0905	Spanish Language and Literature*
	16.0999	Romance Languages and Literatures, Other*
	16.1101	Arabic Language and Literature
	16.1102	Hebrew Language and Literature*
	16.1199	Middle Eastern Languages and Literatures, Other
72221	16.1201	Classics and Classical Languages and Literatures*
	16.1202	Greek Language and Literature (Ancient and Medieval)*
	16.1203	Latin Language and Literature (Ancient and Medieval)*
	16.1299	Classical and Ancient Near Eastern Languages and Literatures, Other
72231	16.0102	Linguistics*
72241	23.0301	Comparative Literature*
72251	45.0801	History, General*
	45.0802	American (United States) History
	45.0803	European History

	45.0804	*History and Philosophy of Science and Technology*
	45.0805	*Public/Applied History and Archival Administration*
	45.0899	*History, Other*
72261	45.0301	*Archaeology**
72271	38.0101	*Philosophy**
72299	05.0204	*Islamic Studies*
	05.0205	*Jewish/Judaic Studies**
	30.1301	*Medieval and Renaissance Studies*

726

72600	38.0201	*Religion/Religious Studies**
	38.9999	*Philosophy and Religion**
	39.0101	*Biblical and Other Theological Languages and Literatures**
	39.0201	*Bible/Biblical Studies**
	39.0301	*Missions/Missionary Studies and Missiology**
	39.0401	*Religious Education**
	39.0501	*Religious/Sacred Music**
	39.0601	*Theology/Theological Studies**
	39.0602	*Divinity/Ministry (BD, MDiv)**
	39.0603	*Rabbinical and Talmudic Studies (MHL, Rav)**
	39.0604	*Pre-Theological/Pre-Ministerial Studies*
	39.0699	*Theological and Ministerial Studies, Other**
	39.0701	*Pastoral Counseling and Specialized Ministries**
	39.9999	*Theological Studies and Religious Vocations, Other**

730

>73001	45.0101	*Social Sciences, General**

73012	45.0601	*Economics, General**
	45.0602	*Applied and Resource Economics*
	45.0603	*Econometrics and Quantitative Economics*
	45.0604	*Development Economics and International Development*
	45.0605	*International Economics*
	45.0699	*Economics, Other*

73022	45.0901	*International Relations and Affairs**
	45.1001	*Political Science, General**

	45.1002	*American Government and Politics*
	45.1099	*Political Science and Government, Other*
73032	45.1101	*Sociology**
73042	45.0201	*Anthropology**
73052	42.0101	*Psychology, General**
	42.0201	*Clinical Psychology**
	42.0301	*Cognitive Psychology and Psycholinguistics**
	42.0401	*Community Psychology**
	42.0601	*Counseling Psychology**
	42.0701	*Developmental and Child Psychology**
	42.0801	*Experimental Psychology**
	42.0901	*Industrial and Organizational Psychology**
	42.1101	*Physiological Psychology/Psychobiology*
	42.1601	*Social Psychology**
	42.1701	*School Psychology**
	42.9999	*Psychology, Other**
73062	45.0701	*Geography**
	45.0702	*Cartography*
73072	05.0101	*African Studies*
	05.0102	*American Studies/Civilization**
	05.0103	*Asian Studies**
	05.0104	*East Asian Studies**
	05.0105	*Eastern European Area Studies*
	05.0106	*European Studies*
	05.0107	*Latin American Studies**
	05.0108	*Middle Eastern Studies**
	05.0109	*Pacific Area Studies*
	05.0110	*Russian and Slavic Area Studies**
	05.0111	*Scandinavian Area Studies*
	05.0112	*South Asian Studies*
	05.0113	*Southeast Asian Studies*
	05.0114	*Western European Studies**
	05.0115	*Canadian Studies*
	05.0199	*Area Studies, Other**
73099	05.0201	*Afro-American (Black) Studies**
	05.0202	*American Indian/Native American Studies*
	05.0203	*Hispanic-American Studies**
	05.0206	*Asian-American Studies*
	05.0207	*Women's Studies**

	05.0299	Ethnic and Cultural Studies, Other*
	05.9999	Area, Ethnic, and Cultural Studies, Other*
	30.0501	Peace and Conflict Studies*
	45.0501	Demography/Population Studies*
	45.1201	Urban Affairs/Studies*
	45.9999	Social Sciences and History, Other*

734

>73401	52.0101	Business, General*
	52.0201	Business Administration and Management, General*
>73426	52.0407	Information Processing/Data Entry Technician
	52.1201	Management Information Systems and Business Data Processing, General*
	52.1202	Business Computer Programming/Programmer
	52.1203	Business Systems Analysis and Design
	52.1204	Business Systems Networking and Telecommunications
	52.1205	Business Computer Facilities Operator
	52.1299	Business Information and Data Processing Services, Other
73432	52.0301	Accounting*
	52.0302	Accounting Technician
	52.0399	Accounting, Other*
73434	08.0701	Auctioneering
	08.0704	General Buying Operations
	08.0705	General Retailing Operations
	08.0706	General Selling Skills and Sales Operations
	08.0708	General Marketing Operations*
	08.0709	General Distribution Operations
	08.0799	General Retailing and Wholesaling Operations and Skills, Other
	09.0201	Advertising*
	52.1401	Business Marketing and Marketing Management*
	52.1402	Marketing Research*
	52.1403	International Business Marketing
	52.1499	Marketing Management and Research, Other*
73436	52.0801	Finance, General*
	52.0803	Banking and Financial Support Services
	52.0804	Financial Planning
	52.0805	Insurance and Risk Management*

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	52.0806	International Finance
	52.0807	Investments and Securities*
	52.0899	Financial Management and Services, Other*
	52.1601	Taxation*
73439	08.0301	Entrepreneurship
	52.0202	Purchasing, Procurement, and Contracts Management*
	52.0203	Logistics and Materials Management*
	52.0204	Office Supervision and Management
	52.0205	Operations Management and Supervision*
	52.0299	Business Administration and Management, Other*
	52.0501	Business Communications
	52.0601	Business/Managerial Economics*
	52.0701	Enterprise Management and Operation, General
	52.0702	Franchise Operation
	52.0799	Enterprise Management and Operation, Other
	52.0901	Hospitality Administration/Management*
	52.0902	Hotel/Motel and Restaurant Management*
	52.0903	Travel and Tourism Management*
	52.0999	Hospitality Services Management, Other*
	52.1001	Human Resources Management*
	52.1002	Labor/Personnel Relations and Studies*
	52.1003	Organizational Behavior Studies*
	52.1099	Human Resources Management, Other
	52.1101	International Business*
	52.1301	Management Science*
	52.1302	Business Statistics*
	52.1399	Business Quantitative Methods and Management Science, Other*
	52.1501	Real Estate*
	52.9999	Business Management and Administrative Services, Other*
73452	44.0401	Public Administration*
	44.0501	Public Policy Analysis*
	44.9999	Public Administration and Services, Other*
	52.0808	Public Finance
73462	13.0401	Education Administration and Supervision, General*
	13.0402	Administration of Special Education*
	13.0403	Adult and Continuing Education Administration*
	13.0404	Educational Supervision*
	13.0405	Elementary, Middle, and Secondary Education Administration*
	13.0406	Higher Education Administration*

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	13.0407	Community and Junior College Education*
	13.0499	Education Administration and Supervision, Other*
	51.0701	Health System/Health Services Administration*
	51.0702	Hospital/Health Facilities Administration*
	51.0705	Medical Office Management
	51.0706	Medical Records Administration
	51.0707	Medical Records Technology/Technician
	51.0708	Medical Transcription
	51.0799	Health and Medical Administrative Services, Other*
	52.0206	Non-Profit and Public Management

738

>73801	22.0101	Law (LLB, JD)*
	22.0102	Pre-Law Studies
	22.0103	Paralegal/Legal Assistant

| 73802 | N/A | |

| 73804 | N/A | |

| 73806 | N/A | |

| 73808 | N/A | |

| 73899 | 22.0104 | Juridical Science/Legal Specialization (LLM, MCL, JSD/SJD)* |
| | 22.0199 | Law and Legal Studies, Other* |

742

74202	26.0101	Biology, General*
	26.0202	Biochemistry*
	26.0203	Biophysics*
	26.0301	.Botany, General*
	26.0305	Plant Pathology*
	26.0307	Plant Physiology*
	26.0399	Botany, Other
	26.0401	Cell Biology*
	26.0402	Molecular Biology*
	26.0499	Cell and Molecular Biology, Other*
	26.0501	Microbiology/Bacteriology*
	26.0601	Anatomy*

	26.0603	Ecology*
	26.0607	Marine/Aquatic Biology*
	26.0608	Neuroscience*
	26.0609	Nutritional Sciences*
	26.0610	Parasitology
	26.0611	Radiation Biology/Radiobiology*
	26.0612	Toxicology*
	26.0613	Genetics, Plant and Animal*
	26.0614	Biometrics*
	26.0615	Biostatistics*
	26.0616	Biotechnology Research
	26.0617	Evolutionary Biology
	26.0618	Biological Immunology*
	26.0619	Virology
	26.0699	Miscellaneous Biological Specializations, Other*
	26.0701	Zoology, General*
	26.0702	Entomology*
	26.0704	Pathology, Human and Animal*
	26.0705	Pharmacology, Human and Animal*
	26.0706	Physiology, Human and Animal*
	26.0799	Zoology, Other
	26.9999	Biological Sciences/Life Sciences, Other*
74212	40.0501	Chemistry, General*
	40.0502	Analytical Chemistry*
	40.0503	Inorganic Chemistry
	40.0504	Organic Chemistry*
	40.0505	Medicinal/Pharmaceutical Chemistry*
	40.0506	Physical and Theoretical Chemistry*
	40.0507	Polymer Chemistry*
	40.0599	Chemistry, Other*
74222	40.0601	Geology*
	40.0602	Geochemistry*
	40.0603	Geophysics and Seismology*
	40.0604	Paleontology
	40.0699	Geological and Related Sciences, Other*
74232	40.0801	Physics, General*
	40.0802	Chemical and Atomic/Molecular Physics
	40.0804	Elementary Particle Physics
	40.0805	Plasma and High-Temperature Physics
	40.0806	Nuclear Physics
	40.0807	Optics*
	40.0808	Solid State and Low-Temperature Physics

	40.0809	*Acoustics*
	40.0810	*Theoretical and Mathematical Physics*
	40.0899	*Physics, Other**
74242	40.0201	*Astronomy**
	40.0301	*Astrophysics**
74252	40.0401	*Atmospheric Sciences and Meteorology**
74262	40.0702	*Oceanography**
74299	30.0101	*Biological and Physical Sciences**
	30.0601	*Systems Science and Theory**
	30.1001	*Biopsychology*
	40.0101	*Physical Sciences, General**
	40.0701	*Metallurgy*
	40.0703	*Earth and Planetary Sciences**
	40.0799	*Miscellaneous Physical Sciences, Other**
	40.9999	*Physical Sciences, Other**

746

> 74601	27.0101	*Mathematics**
74611	27.0501	*Mathematical Statistics**
74621	52.0802	*Actuarial Science**
74639	27.0301	*Applied Mathematics, General**
	27.0302	*Operations Research**
	27.0399	*Applied Mathematics, Other*
	27.9999	*Mathematics, Other**
	30.0801	*Mathematics and Computer Science*
74641	11.0101	*Computer and Information Sciences, General**
	11.0201	*Computer Programming**
	11.0301	*Data Processing Technology/Technician**
	11.0401	*Information Sciences and Systems**
	11.0501	*Computer Systems Analysis**
	11.0701	*Computer Science**
	11.9999	*Computer and Information Sciences, Other**

750

> 75002

51.0301	Community Health Liaison*
51.2201	Public Health, General*
51.2202	Environmental Health*
51.2203	Epidemiology*
51.2204	Health and Medical Biostatistics
51.2205	Health Physics/Radiologic Health
51.2206	Occupational Health and Industrial Hygiene
51.2207	Public Health Education and Promotion*
51.2299	Public Health, Other*

75006

51.0807	Physician Assistant*
51.1102	Pre-Medicine Studies
51.1201	Medicine (MD)*
51.1401	Medical Clinical Sciences (MS, PhD)*
51.1901	Osteopathic Medicine (DO)*

> 75008

51.0803	Occupational Therapy Assistant
51.0806	Physical Therapy Assistant
51.2301	Art Therapy*
51.2302	Dance Therapy*
51.2303	Hypnotherapy
51.2304	Movement Therapy
51.2305	Music Therapy*
51.2306	Occupational Therapy*
51.2307	Orthotics/Prosthetics
51.2308	Physical Therapy*
51.2309	Recreational Therapy
51.2310	Vocational Rehabilitation Counseling*
51.2399	Rehabilitation/Therapeutic Services, Other*

> 75012

51.1601	Nursing (RN Training)*
51.1602	Nursing Administration*
51.1603	Nursing, Adult Health
51.1604	Nursing Anesthetist*
51.1605	Nursing, Family Practice
51.1606	Nursing, Maternal/Child Health*
51.1608	Nursing Science*
51.1609	Nursing, Pediatric
51.1610	Nursing, Psychiatric/Mental Health*
51.1611	Nursing, Public Health*
51.1612	Nursing, Surgical*
51.1613	Practical Nurse (LPN Training)
51.1614	Nurse Assistant/Aide

	51.1615	*Home Health Aide*
	51.1699	*Nursing, Other**
>75017	51.0907	*Medical Radiologic Technology/Technician**
>75019	51.0901	*Cardiovascular Technology/Technician*
	51.0902	*Electrocardiograph Technology/Technician*
	51.0903	*Electroencephalograph Technology/Technician*
	51.0904	*Emergency Medical Technology/Technician*
	51.0905	*Nuclear Medical Technology/Technician*
	51.0906	*Perfusion Technology/Technician*
	51.0908	*Respiratory Therapy Technology/Technician*
	51.0909	*Surgical/Operating Room Technician*
	51.0910	*Diagnostic Medical Sonography*
	51.0999	*Health and Medical Diagnostic and Treatment Services, Other**
>75030	51.0802	*Medical Laboratory Assistant*
	51.1001	*Blood Bank Technology/Technician*
	51.1002	*Cytotechnologist*
	51.1003	*Hematology Technology/Technician*
	51.1004	*Medical Laboratory Technician**
	51.1005	*Medical Technology**
	51.1006	*Optometric/Ophthalmic Laboratory Technician*
	51.1099	*Health and Medical Laboratory Technologists/Technicians, Other**
75042	51.0401	*Dentistry (DDS, DMD)**
	51.0501	*Dental Clinical Sciences/Graduate Dentistry (MS, PhD)**
	51.1101	*Pre-Dentistry Studies*
>75046	51.0601	*Dental Assistant*
	51.0602	*Dental Hygienist*
	51.0603	*Dental Laboratory Technician*
	51.0699	*Dental Services, Other**
>75052	51.0805	*Pharmacy Technician/Assistant*
	51.1103	*Pre-Pharmacy Studies*
	51.2001	*Pharmacy (BPharm, PharmD)**
	51.2002	*Pharmacy Administration and Pharmaceutics**
	51.2003	*Medical Pharmacology and Pharmaceutical Sciences**
	51.2099	*Pharmacy, Other**
>75062	51.0804	*Ophthalmic Medical Assistant*

315

	51.1701	Optometry (OD)*
	51.1801	Opticianry/Dispensing Optician
	51.1802	Optical Technician/Assistant
	51.1803	Ophthalmic Medical Technologist
	51.1804	Orthoptics
	51.1899	Ophthalmic/Optometric Services, Other
75099	51.0101	Chiropractic (DC, DCM)*
	51.0201	Communication Disorders, General*
	51.0202	Audiology/Hearing Sciences*
	51.0203	Speech-Language Pathology*
	51.0204	Speech-Language Pathology and Audiology*
	51.0205	Sign Language Interpreter
	51.0299	Communication Disorders Sciences and Services, Other*
	51.0703	Health Unit Coordinator/Ward Clerk
	51.0704	Health Unit Manager/Ward Supervisor
	51.0801	Medical Assistant
	51.0899	Health and Medical Assistants, Other
	51.1199	Health and Medical Preparatory Programs, Other*
	51.1301	Medical Anatomy*
	51.1302	Medical Biochemistry*
	51.1303	Medical Biomathematics and Biometrics
	51.1304	Medical Physics/Biophysics
	51.1305	Medical Cell Biology
	51.1306	Medical Genetics
	51.1307	Medical Immunology
	51.1308	Medical Microbiology*
	51.1309	Medical Molecular Biology
	51.1310	Medical Neurobiology
	51.1311	Medical Nutrition
	51.1312	Medical Pathology*
	51.1313	Medical Physiology*
	51.1314	Medical Toxicology
	51.1399	Basic Medical Sciences, Other*
	51.1501	Alcohol/Drug Abuse Counseling*
	51.1502	Psychiatric/Mental Health Services Technician*
	51.1503	Clinical and Medical Social Work
	51.1599	Mental Health Services, Other*
	51.2101	Podiatry (DPM, DP, PodD)*
	51.2601	Health Aide
	51.2701	Acupuncture and Oriental Medicine*
	51.2702	Medical Dietician
	51.2703	Medical Illustrating*
	51.2704	Naturopathic Medicine
	51.2705	Psychoanalysis

	51.9999	Health Professions and Related Sciences, Other*

>752

>75212
	01.0401	Agricultural and Food Products Processing Operations and Management
	12.0506	Meatcutter

>75284
	41.0101	Biological Technology/Technician
	41.0301	Chemical Technology/Technician
	41.0399	Physical Science Technology/Technicians, Other
	41.9999	Science Technology/Technicians, Other*

754

>75402
	15.1102	Surveying*

75412
	14.0601	Ceramic Sciences and Engineering*
	14.0701	Chemical Engineering*
	14.3201	Polymer/Plastics Engineering
	15.0607	Plastics Technology/Technician

75416
	14.0801	Civil Engineering, General*
	14.0802	Geotechnical Engineering
	14.0804	Transportation and Highway Engineering
	14.0805	Water Resources Engineering
	14.0899	Civil Engineering, Other*
	14.2401	Ocean Engineering*
	15.0201	Civil Engineering/Civil Technology/Technician
	14.1001	Construction/Building Technology/Technician

75422
	14.0901	Computer Engineering*
	14.1001	Electrical, Electronics, and Communications Engineering*
	15.0301	Computer Engineering Technology/Technician
	15.0303	Electrical, Electronic, and Communications Engineering Technology/Technician
	15.0399	Electrical and Electronic Engineering-Related Technologies/Technicians
	15.0402	Computer Maintenance Technology/Technician
	15.0403	Electromechanical Technology/Technician
	15.0404	Instrumentation Technology/Technician
	15.0405	Robotics Technology/Technician

	15.0499	Electromechanical Instrumentation and Maintenance Technologies/Technicians
75426	14.1701	Industrial/Manufacturing Engineering*
	14.3001	Engineering/Industrial Management*
	15.0603	Industrial/Manufacturing Technology/Technician*
	15.0699	Industrial Production Technologies/Technicians, Other*
	15.0701	Occupational Safety and Health Technology/Technician*
	15.0702	Quality Control Technology/Technician
	15.0799	Quality Control and Safety Technologies/Technicians, Other
75432	14.2001	Metallurgical Engineering*
	15.0611	Metallurgical Technology/Technician
75436	14.1501	Geological Engineering*
	14.2101	Mining and Mineral Engineering*
	15.0901	Mining Technology/Technician
	15.0999	Mining and Petroleum Technologies/Technicians, Other
75442	14.0201	Aerospace, Aeronautical, and Astronautical Engineering*
	14.1901	Mechanical Engineering*
	14.2201	Naval Architecture and Marine Engineering*
	15.0801	Aeronautical and Aerospace Engineering Technology/Technician*
	15.0803	Automotive Engineering Technology/Technician*
	15.0805	Mechanical Engineering/Mechanical Technology/Technician*
	15.0899	Mechanical Engineering-Related Technologies/Technicians, Other*
	15.1103	Hydraulic Technology/Technician
75453	14.0301	Agricultural Engineering*
75463	N/A	
75499	14.0101	Engineering, General*
	14.0501	Bioengineering and Biomedical Engineering*
	14.1101	Engineering Mechanics*
	14.1201	Engineering Physics*
	14.1301	Engineering Science*
	14.1401	Environmental/Environmental Health Engineering*
	14.1601	Geophysical Engineering
	14.1801	Materials Engineering*

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14.2301	Nuclear Engineering*
14.2501	Petroleum Engineering*
14.2701	Systems Engineering*
14.2801	Textile Sciences and Engineering*
14.3101	Materials Science*
14.9999	Engineering, Other*
15.0304	Laser and Optical Technology/Technician
15.0401	Biomedical Engineering-Related Technology/Technician
15.0501	Heating, Air Conditioning, and Refrigeration Technology/Technician
15.0503	Energy Management and Systems Technology/Technician
15.0505	Solar Technology/Technician
15.0506	Water Quality and Wastewater Treatment Technology/Technician
15.0507	Environmental and Pollution Control Technology/Technician
15.0599	Environmental Control Technologies/Technicians, Other*
15.0903	Petroleum Technology/Technician
15.1101	Engineering-Related Technology/Technician, General
15.9999	Engineering-Related Technologies/Technicians, Other*
41.0204	Industrial Radiologic Technology/Technician
41.0205	Nuclear/Nuclear Power Technology/Technician
41.0299	Nuclear and Industrial Radiologic Technologies/Technicians, Other

758

>75801	04.0201	Architecture*
75802	04.0501	Interior Architecture*
	14.0401	Architectural Engineering*
	14.0803	Structural Engineering
	15.0101	Architectural Engineering Technology/Technician
75812	04.0601	Landscape Architecture*
75822	04.0301	City/Urban, Community, and Regional Planning*
	04.0401	Architectural Environmental Design*
	04.0701	Architectural Urban Design and Planning*
>75899	04.9999	Architecture and Related Programs, Other*
	30.1201	Historic Preservation, Conservation, and Architectural

762

>76201	01.0101	*Agricultural Business and Management, General**
	01.0301	*Agricultural Production Workers and Managers, General*
	02.0101	*Agriculture/Agricultural Sciences, General**
76203	01.0302	*Agricultural Animal Husbandry and Production Management*
	01.0303	*Aquaculture Operations and Production Management*
	01.0399	*Agricultural Production Workers and Managers, Other*
	02.0201	*Animal Sciences, General**
	02.0202	*Agricultural Animal Breeding and Genetics*
	02.0203	*Agricultural Animal Health*
	02.0204	*Agricultural Animal Nutrition*
	02.0205	*Agricultural Animal Physiology*
	02.0206	*Dairy Science**
	02.0209	*Poultry Science**
	02.0299	*Animal Sciences, Other**
76206	01.0601	*Horticulture Services Operations and Management, General**
	01.0603	*Ornamental Horticulture Operations and Management**
	01.0604	*Greenhouse Operations and Management*
	01.0605	*Landscaping Operations and Management*
	01.0606	*Nursery Operations and Management*
	01.0607	*Turf Management*
	01.0699	*Horticulture Services Operations and Management, Other*
	02.0403	*Horticulture Science**
76208	01.0304	*Crop Production Operations and Management*
	02.0401	*Plant Sciences, General**
	02.0402	*Agronomy and Crop Science**
	02.0405	*Plant Breeding and Genetics*
	02.0406	*Agricultural Plant Pathology*
	02.0407	*Agricultural Plant Physiology*
	02.0408	*Plant Protection (Pest Management)**
	02.0409	*Range Science and Management**
	02.0499	*Plant Sciences, Other**
76212	01.0102	*Agricultural Business/Agribusiness Operations**
	01.0103	*Agricultural Economics**

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	01.0104	*Farm and Ranch Management*
	01.0199	*Agricultural Business and Management, Other*
76222	02.0301	*Food Sciences and Technology**
76226	02.0501	*Soil Sciences**
76232	51.0808	*Veterinarian Assistant/Animal Health Technician*
	51.1104	*Pre-Veterinary Studies*
	51.2401	*Veterinary Medicine (DVM)**
	51.2501	*Veterinary Clinical Sciences (MS, PhD)**
76249	01.0201	*Agricultural Mechanization, General*
	01.0204	*Agricultural Power Machinery Operator*
	01.0299	*Agricultural Mechanization, Other*
	01.0501	*Agricultural Supplies Retailing and Wholesaling*
	01.0505	*Animal Trainer*
	01.0507	*Equestrian/Equine Studies, Horse Management and Training*
	01.0599	*Agricultural Supplies and Related Services, Other*
	01.0701	*International Agriculture*
	01.9999	*Agricultural Business and Production, Other**
	02.0102	*Agricultural Extension*
	02.9999	*Agriculture/Agricultural Sciences, Other**
76262	03.0401	*Forest Harvesting and Production Technology/Technician**
	03.0404	*Forest Products Technology/Technician*
	03.0405	*Logging/Timber Harvesting*
	03.0499	*Forest Production and Processing, Other*
	03.0501	*Forestry, General**
	03.0502	*Forestry Sciences**
	03.0506	*Forest Management**
	03.0509	*Wood Sciences and Pulp/Paper Technology**
	03.0599	*Forestry and Related Sciences, Other**
	03.0601	*Wildlife and Wildlands Management**
76272	03.0301	*Fishing and Fisheries Sciences and Management**
	49.0303	*Fishing Technology/Commercial Fishing*
766		
>76601	19.0101	*Home Economics, General**

76612	19.0401	Family Resource Management Studies*
	19.0402	Consumer Economics and Science*
	19.0499	Family/Consumer Resource Management, Other
	19.0501	Foods and Nutrition Studies, General*
	19.0502	Foods and Nutrition Science*
	19.0503	Dietetics/Human Nutritional Services*
	19.0505	Food Systems Administration
	19.0599	Foods and Nutrition Studies, Other*
	20.0401	Institutional Food Workers and Administrators, General
	20.0404	Dietician Assistant
	20.0409	Institutional Food Services Administrator
	20.0499	Institutional Food Workers and Administrators, Other
>76622	19.0701	Individual and Family Development Studies, General*
	19.0706	Child Growth, Care, and Development Studies*
	19.0799	Individual and Family Development Studies, Other*
	20.0201	Child Care and Guidance Workers and Managers, General*
	20.0202	Child Care Provider/Assistant
	20.0203	Child Care Services Manager
	20.0299	Child Care and Guidance Workers and Managers, Other
76632	19.0601	Housing Studies, General*
	19.0603	Interior Environments
	19.0699	Housing Studies, Other
	19.0901	Clothing/Apparel and Textile Studies*
	20.0501	Home Furnishings and Equipment Installers and Consultants, General
	20.0502	Window Treatment Maker and Installer
	20.0599	Home Furnishings and Equipment Installers and Consultants, Other
76699	19.0201	Business Home Economics
	19.0202	Home Economics Communications
	19.9999	Home Economics, Other*
	20.0601	Custodial, Housekeeping, and Home Services Workers and Managers, General
	20.0602	Elder Care Provider/Companion
	20.0606	Homemaker's Aide
	20.0699	Custodial, Housekeeping, and Home Services Workers and Managers, Other
	20.9999	Vocational Home Economics, Other

> 770

> 77002   49.0102   *Aircraft Pilot and Navigator (Commercial)*
          49.0106   *Flight Attendant*
          49.0107   *Aircraft Pilot (Private)*

> 77029   49.0101   *Aviation and Airway Science*
          49.0104   *Aviation Management*
          49.0105   *Air Traffic Controller*
          49.0199   *Air Transportation Workers, Other*
          49.0304   *Diver (Professional)*
          49.9999   *Transportation and Material Moving Workers, Other*

> 778

> 77822   08.0901   *Hospitality and Recreation Marketing Operations,*
                    General
          08.0902   *Hotel/Motel Services Marketing Operations*
          08.0903   *Recreation Products/Services Marketing Operations*
          08.0906   *Food Sales Operations*
          08.0999   *Hospitality and Recreation Marketing Operations,*
                    Other
          12.0504   *Food and Beverage/Restaurant Operations Manager*
          20.0604   *Custodian/Caretaker*
          20.0605   *Executive Housekeeper*

> 77862   08.0101   *Apparel and Accessories Marketing Operations, General*
          08.0102   *Fashion Merchandising*
          08.0103   *Fashion Modeling*
          08.0199   *Apparel and Accessories Marketing Operations, Other*
          08.0204   *Business Services Marketing Operations*
          08.0205   *Personal Services Marketing Operations*
          08.0299   *Business and Personal Services Marketing Operations,*
                    Other
          08.0401   *Financial Services Marketing Operations*
          08.0503   *Floristry Marketing Operations*
          08.0601   *Food Products Retailing and Wholesaling Operations*
          08.0809   *Home Products Marketing Operations*
          08.0810   *Office Products Marketing Operations*
          08.0899   *Home and Office Products Marketing Operations, Other*
          08.1001   *Insurance Marketing Operations*
          08.1203   *Vehicle Parts and Accessories Marketing Operations*
          08.1208   *Vehicle Marketing Operations*
          08.1209   *Petroleum Products Retailing Operations*

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	08.1299	*Vehicle and Petroleum Products Marketing Operations, Other*
	08.1301	*Health Products and Services Marketing Operations*
	08.9999	*Marketing Operations/Marketing and Distribution, Other*
>77872	08.1104	*Tourism Promotion Operations*
	08.1105	*Travel Services Marketing Operations*
	08.1199	*Tourism and Travel Services Marketing Operations, Other*

784

78402	09.0401	*Journalism**
	09.0403	*Mass Communications**
	09.0499	*Journalism and Mass Communications, Other*

78404	09.0402	*Broadcast Journalism**
	09.0701	*Radio and Television Broadcasting**
	10.0104	*Radio and Television Broadcasting Technology/Technician**

78407	09.0501	*Public Relations and Organizational Communications**

78409	09.0101	*Communications, General**
	09.9999	*Communications, Other**
	10.0101	*Educational/Instructional Media Technology/Technician*
	10.0199	*Communications Technologies/Technicians, Other*

78422	25.0101	*Library Science/Librarianship**
	25.0301	*Library Assistant*
	25.9999	*Library Science, Other**

>78425	30.1401	*Museology/Museum Studies**

789

>78912	43.0102	*Corrections/Correctional Administration**
	43.0103	*Criminal Justice/Law Enforcement Administration**
	43.0104	*Criminal Justice Studies**
	43.0106	*Forensic Technology/Technician**
	43.0107	*Law Enforcement/Police Science**
	43.0109	*Security and Loss Prevention Services*
	43.0199	*Criminal Justice and Corrections, Other**

78913	45.0401	Criminology*

>78915	43.0201	Fire Protection and Safety Technology/Technician
	43.0202	Fire Services Administration
	43.0203	Fire Science/Firefighting
	43.0299	Fire Protection, Other

78919	43.9999	Protective Services, Other

78932	19.0301	Family and Community Studies*
	19.0703	Family and Marriage Counseling*
	19.0704	Family Life and Relations Studies*
	19.0705	Gerontological Services*
	44.0201	Community Organization, Resources, and Services*
	44.0701	Social Work*

78942	N/A	

78952	03.0101	Natural Resources Conservation, General*
	03.0102	Environmental Science/Studies*
	03.0201	Natural Resources Management and Policy
	03.0203	Natural Resources Law Enforcement and Protective Services
	03.0299	Natural Resources Management and Protective Services, Other
	03.9999	Conservation and Renewable Natural Resources, Other*

78962	31.0101	Parks, Recreation, and Leisure Studies*
	31.0301	Parks, Recreation, and Leisure Facilities Management*
	31.0501	Health and Physical Education, General*
	31.0502	Adapted Physical Education/Therapeutic Recreation
	31.0503	Athletic Training and Sports Medicine*
	31.0504	Sport and Fitness Administration/Management*
	31.0505	Exercise Sciences/Physiology and Movement Studies*
	31.0506	Socio-Psychological Sports Studies
	31.0599	Health and Physical Education/Fitness, Other*
	31.9999	Parks, Recreation, Leisure, and Fitness Studies, Other*

78999	30.1101	Gerontology*
	30.1501	Science, Technology, and Society
	30.9999	Multi-/Interdisciplinary Studies, Other*

9. Education Not Definable by Level

ISCED	IPEDS	
9	N/A	

ISCED	CIP	
901		
90100	**32.0101**	*Basic Skills, General*
914		
91416	N/A	
91499	N/A	
918		
91810	**36.0110**	*Art*
91812	**36.0102**	*Handicrafts and Model-Making*
91822	**36.0115**	*Music*
91832	**36.0117**	*Theatre*
91899	**36.0114**	*Dancing*
922		
92215	N/A	
92221	N/A	
92251	N/A	
92261	N/A	

92299	36.0116	*Reading*
	36.0118	*Writing*

926

92600	N/A

930

93012	N/A	
93022	33.0101	*Citizenship Activities, General*
93032	33.0103	*Community Awareness*
93052	37.0101	*Self-Awareness and Personal Assessment*
	37.0102	*Stress Management and Coping Skills*
	37.0103	*Personal Decision-Making Skills*
	37.0104	*Self-Esteem and Values Clarification*
	37.0199	*Personal Awareness and Self-Improvement, Other*
93062	36.0109	*Travel and Exploration*
93099	33.0199	*Citizenship Activities, Other*

934

93404	N/A	
93408	N/A	
93438	N/A	
93439	32.0105	*Job Seeking/Changing Skills*
	32.0107	*Career Exploration/Awareness Skills*
	33.0104	*Community Involvement*
	35.0103	*Business and Social Skills*

938

93800	33.0102	*American Citizenship Education*

942

94202	N/A	
94222	N/A	
94232	N/A	
94242	N/A	
94299	36.0106	*Nature Appreciation*

946

94600	32.0104	*Computational Skills*
	32.0113	*Computer Games and Programming Skills*

950

95018	N/A	
95099	34.0102	*Birthing and Parenting Knowledge and Skills*
	34.0103	*Personal Health Improvement and Maintenance*
	34.0104	*Addiction Prevention and Treatment*
	34.0199	*Health-Related Knowledge and Skills, Other*

952

95200	36.0105	*Home Maintenance and Improvement*

954

95400	N/A	

958

95810	N/A	
95822	N/A	

962

96202	36.0107	*Pet Ownership and Care*
96262	N/A	
96272	N/A	

966

96604	20.0103	*Clothing and Textiles*
96612	20.0104	*Consumer Education*
	20.0108	*Food and Nutrition*
96622	20.0102	*Child Development, Care, and Guidance*
	20.0107	*Family Living and Parenthood*
96699	20.0101	*Comprehensive Consumer and Homemaking Education*
	20.0105	*Exploratory Homemaking*
	20.0106	*Family/Individual Health*
	20.0109	*Home Management*
	20.0110	*Housing, Home Furnishings, and Equipment*
	20.0199	*Consumer and Homemaking Education, Other*
	36.0112	*Cooking and Other Domestic Skills*

970

97000	N/A	

978

97800	N/A	

984

98400	N/A	

989

98962	**36.0108**	*Sports and Exercise*
98999	**32.0199**	*Basic Skills, Other*
	35.0101	*Interpersonal and Social Skills, General*
	35.0102	*Interpersonal Relationships Skills*
	35.0199	*Interpersonal and Social Skills, Other*
	36.0101	*Leisure and Recreational Activities, General*
	36.0103	*Board, Card, and Role-Playing Games*
	36.0111	*Collecting*
	36.0199	*Leisure and Recreational Activities, Other*

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