

# Considerations for Using the *School Courses for the Exchange of Data (SCED)* Classification System in High School Transcript Studies: Applications for Converting Course Codes from the *Classification of Secondary School Courses (CSSC)*

Technical/Methodological Report

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# Executive Summary

The National Center for Education Statistics (NCES) began collecting high school transcripts with the High School and Beyond (HS&B) longitudinal study of students who were in the 10th grade in 1980. NCES has continued to collect transcripts for a secondary-level cohort in each subsequent decade. This report describes the two high school course-coding systems used by NCES and the development of a crosswalk that allows data coded with the first system to be translated into the second system. It then provides tables with estimates generated using the two different systems.

## NCES Secondary Course Classification Systems

In order to analyze student transcript data, NCES developed the *Classification of Secondary School Courses (CSSC)* using data from the initial transcript collection in HS&B. This taxonomy was also used to code courses from high school transcript studies throughout the 1980s, 1990s, and 2000s. In 2007, NCES released the *Secondary School Course Classification System: School Codes for the Exchange of Data (SCED)*, a course classification system designed to facilitate schools' and districts' maintenance of secondary-level transcript data over time and transfer of those data among districts and states (Bradby, Pedroso, and Rogers 2007). NCES anticipated that, when enough districts and states adopted SCED, the resulting standardization of transcript data would facilitate research that could inform policymaking.

In 2013, high school transcripts from students participating in the High School Longitudinal Study of 2009 (HSLs:09) were coded using SCED. In order to compare SCED-coded data, such as the HSLs:09 transcript data, with those of the earlier secondary longitudinal studies, which were coded using CSSC, NCES, in consultation with outside experts on the coding systems and NCES high school transcript data, developed a crosswalk between the CSSC and SCED. NCES used a three-phase process to develop the crosswalk. In Phase 1, researchers produced a one-to-one match between CSSC and SCED codes whose course titles and descriptions matched exactly. In Phase 2, the team expanded the Phase 1 matching to include many-to-one matches of CSSC to SCED codes and to take into account course level and where each course fell in a sequence of courses. In Phase 3, project staff and experts suggested changes to refine and provided quality control on the

mapping as a whole. NCES recoded transcript data from HS&B as well as the National Education Longitudinal Study of 1988 (NELS:88) and the Educational Longitudinal Study of 2002 (ELS:2002) into SCED codes using the crosswalk.

## Issues to Consider When Generating and Comparing CSSC- and SCED-Coded Estimates Across Cohorts

Before comparing estimates generated using the two course-coding systems, analysts considered three issues to ensure that estimates were comparable across cohorts. First, they controlled for the amount of time students were in school by limiting the sample to high school graduates who had complete transcripts. These sample restrictions served to reduce any bias that would occur if dropout rates or the rates at which students transferred among high schools varied among cohorts.

Second, in two of the four secondary school cohorts studied, the sample design included freshening, while the other two were not freshened, and analysts had to take this difference among the samples into account. All cohorts were first sampled before 12th grade (i.e., 8th-graders in NELS:88, high school freshmen in HSLS:09, and high school sophomores in HS&B and ELS:2002). By the time most students from each cohort reached the 12th grade, however, the sample did not represent all 12th-graders in that year because it did not include, for example, students who had repeated a year or accelerated a year during high school. Two of the studies, NELS:88 and ELS:2002, addressed this issue by freshening their samples when most students in the original sample were in 12th grade—that is, they added 12th-grade students to the original sample to represent 12th-graders who would otherwise be excluded. HS&B and HSLS:09 did not freshen their samples.

To assess whether estimates based on HS&B and HSLS:09 transcript data would differ from estimates from NELS:88 and ELS:2002 because the former studies' samples were not freshened, analysts compared estimates of coursetaking statistics based on SCED-coded transcript data from freshened NELS:88 and ELS:2002 samples with corresponding estimates based on nonfreshened samples (i.e., NELS:88 and ELS:2002 samples excluding the cases that were added in freshening). As previous work (Dalton et al. 2007) indicated, there were few differences between estimates based on freshened and nonfreshened data. Where statistically significant differences occurred, they were no more than one-tenth of a Carnegie unit.

Third, CSSC and SCED aggregated course codes into some subject areas somewhat differently, which can affect the comparability of estimates regarding coursetaking within these broadly defined subjects. Although the English and mathematics

aggregations match well between CSSC and SCED, science and social studies/history courses were organized differently between the two systems, with some courses categorized as science or social studies courses in SCED but not in CSSC.

## Comparing CSSC- and SCED-Based Estimates

For each of four core academic subject areas (English, mathematics, science, and social studies), analysts generated estimates of the average total number of credits earned by high school graduates with complete transcripts in each of the four secondary longitudinal cohorts. Estimates were disaggregated by sex, race/ethnicity, parents' highest education level, students' expectations for education attainment as of their senior year in high school, and whether the high schools students attended as seniors were public or private. For the 1982 (HS&B), 1992 (NELS:88), and 2004 (ELS:2002) graduates, estimates were generated using both CSSC- and SCED-coded transcript data to compare the results between the two systems. HSLs:09 data were coded only using SCED.

In English, 6 of 17 estimates differed among 2004 graduates. For example, among 2004 Hispanic students, the CSSC-based estimate of average English credits earned was 4.1 credits, and the corresponding SCED-based estimate was 4.5 credits. Other observed differences were one-fifth of a credit or less. None of the pairs of mathematics, science, or social studies estimates differed.

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# Introduction

High school students' transcripts provide key information for understanding various aspects of secondary education in the United States. Transcripts can be used to examine how students' high school coursetaking has changed over time and how secondary coursetaking relates to postsecondary education access, persistence, and attainment as well as labor market outcomes. Recognizing the value of coursetaking data, the National Center for Education Statistics (NCES) has collected high school transcripts for students participating in four longitudinal studies that followed students from middle or high school through the early years of their lives after high school.

To translate the information recorded on these high school transcripts into digital information suitable for data analysis, NCES produced *Classification of Secondary School Courses (CSSC)* (Evaluation Technologies Incorporated 1982).<sup>1</sup> NCES first used CSSC to code coursetaking data from transcripts collected as part of High School and Beyond (HS&B), a longitudinal study of high school sophomores in 1980, and continued to use it to code transcripts for both the National Education Longitudinal Study of 1988 (NELS:88) and the Education Longitudinal Study of 2002 (ELS:2002).

With the proliferation of state longitudinal data systems since 2002, administrators needed a common course classification system to enable the electronic exchange of student transcripts among schools, districts, and states. After sponsoring a pilot project to develop such a system, NCES published *Secondary School Course Classification System: School Codes for the Exchange of Data (SCED)*, a system for classifying secondary school courses (Bradby, Pedroso, and Rogers 2007) that states, districts, and schools could opt to use for classifying coursetaking records. SCED was used to classify courses from transcripts collected as part of the High School Longitudinal Study of 2009 (HSL:09).

In order to compare coursetaking between the earlier CSSC-coded data and the more recent SCED-coded data, NCES developed a crosswalk that maps CSSC codes to corresponding SCED codes. This report provides and explains the CSSC-SCED crosswalk. It also describes the CSSC, the development and structure of SCED, and the procedures used to develop the crosswalk and discusses factors that researchers should consider when using SCED-coded data to conduct research among NCES

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<sup>1</sup> The CSSC is available on the NCES website at <https://nces.ed.gov/surveys/hst/courses.asp>.

high school cohorts. This report includes a series of tables that compare estimates derived from CSSC- and SCED-based variables. The appendices present the CSSC-to-SCED crosswalk as well as estimates for various measures of high school coursetaking in each of the four secondary longitudinal studies for which transcripts were collected.



## Origin and Structure of CSSC

CSSC was originally developed by NCES to provide a standardized classification scheme for courses taken by students participating in HS&B (Evaluation Technologies Incorporated 1982). Subsequently, NCES used CSSC for several major national high school transcript studies, including the High School Transcript Studies (HSTS) associated with the National Assessment of Educational Progress (NAEP) in 1987, 1990, 1994, 1998, 2000, 2005, and 2009, as well as NELS:88 and ELS:2002.

CSSC's framework was taken from the Classification of Instructional Programs (CIP). NCES developed CIP in 1980 and revised it in 1985, 1990, 2000, and 2010. CIP:2010 classifies general groupings of related programs of study into 47 categories, each represented by a two-digit code. Each of these 47 categories is further divided into two sublevels. The first sublevel, represented by an additional two digits and resulting in four-digit codes, represents clusters of programs with similar curricula and goals. The second sublevel, represented by another two digits, results in six-digit codes that identify specific instructional programs. Nearly all CIP program titles describe postsecondary programs of study, including both academic and occupational programs. One of the 47 categories classifies programs of study that lead to the award of a high school diploma or high school certificate (U.S. Department of Education 2010).

Beginning with this three-level CIP framework, CSSC developers used course catalogs from 52 secondary schools in 24 states to design a secondary course classification system (Bradby and Hoachlander 1999). Like CIP, CSSC codes are six-digit codes: the first four digits of CSSC codes are derived from CIP's groupings of instructional programs, and the additional, last two digits associate the code with a specific high school course title. In the CSSC, the first two digits of a course code represent its *main category*, the second two digits represent its *subcategory*, and the last two digits represent the course. Since the CSSC's initial publication in 1982, main categories, subcategories, and individual courses have been added to the CSSC. At present, the CSSC includes codes for approximately 2,180 secondary school course titles organized within 55 main categories. Each six-digit CSSC code is associated with a course title (and sometimes additional alternate titles) and, typically, a few phrases that characterize the course.

Exhibit 1 displays the CSSC codes for two biology courses, demonstrating how the six digits in CSSC codes inform users about courses, and includes the associated

alternative titles and descriptive phrases for each course. Each main category and subcategory have written descriptions (duplicated from the CIP), which are not provided in the exhibit.

**Exhibit 1. CSSC codes for two biology courses**

Main category	Subcategory	Course	Alternative title(s)
<b>26.</b>	<b>01</b>	<b>21</b>	
Life Sciences	Biology, General	Biology, Basic 1	Biology, Essentials; Biology, Patterns; Life Science; Natural Science; Biology, Functional

Main category	Subcategory	Course	Alternative title(s)
<b>26.</b>	<b>01</b>	<b>31</b>	
Life Sciences	Biology, General	Biology, General 1	Biology; Biology, Regents; Biology, Introductory

# What Is SCED?

The goal of SCED was to establish standardized course codes that states, districts, and schools could use to compare and transfer P–12 course information. By facilitating the accumulation of comparable coursetaking data over time and among state and local education agencies, SCED would also enable researchers and evaluators to study relationships between coursetaking and student outcomes. This section describes the procedures used to develop and maintain SCED and then explains the system’s framework and the structure of the course codes.

## Development of SCED

Between the development of CSSC and the development of SCED, NCES sponsored the *Pilot Standard National Course Classification System for Secondary Education* (SNCCS) in 1995 (Bradby et al. 1995) to support two NCES projects that were expanding the use of technology to maintain and exchange student data: the *Student Data Handbook for Elementary, Secondary, and Early Childhood Education* (Council of Chief State School Officers [CCSSO] 2001) and the Standardization of Postsecondary Education Electronic Data Exchange/Exchange of Permanent Records Electronically for Students and Schools (SPEEDE/ExPRESS).<sup>2</sup> CCSSO guided the former project, and a consortium of state and local education agencies oversaw the latter; the goal of both projects was to create data standards for the electronic transmission of many types of data collected by educational institutions. SNCCS was a pilot project whose final objective was to create a system for classifying coursework from early childhood through secondary education. Developers used material (course lists, course descriptions, and coding systems) from five states to create the SNCCS, which was then tested for proof of concept with corresponding material from two additional states.

### Addressing the Challenges of CSSC With SNCCS

Developers of SNCCS attempted to address some of the challenges posed by CSSC. In its final two digits, the CSSC coding structure embeds information about a course’s level or rigor and its place within a sequence of courses. With a defined number of course codes, the available codes are sometimes adequate to reflect

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<sup>2</sup> The *Student Data Handbook* was first published in 1994 and revised in 2000 and 2001. Only the 2001 edition is currently available on the NCES website.

school offerings using these two digits, but in other cases, they are not. Faced with the CSSC as provided, education agencies certainly could (and undoubtedly did) alter and add to the CSSC to fit their needs. For instance, a district might add new codes when the CSSC did not offer enough codes to adequately cover all the levels of offered courses or to display enough years of coursework. The resulting differences between versions, however, prevented the CSSC from being useful for exchanging electronic data among education systems; course codes represented different courses across districts. The CSSC also posed challenges because its newer main categories and subcategories lacked descriptions and many courses had either sparse course descriptors or none at all.

SNCCS addressed these challenges in two ways: SNCCS course codes signified course rigor by including a specific digit for that purpose in course identifier codes. This digit was separate from the main code associated with a course description and allowed codes to represent sequences of courses with the same main course description (Bradby et al. 1995).

Given the limited use of electronic data systems at the time, SNCCS was not widely adopted by education agencies. Those who did use SNCCS, however, provided valuable feedback. For example, the subject fields of the SNCCS were roundly criticized as unwieldy, too difficult to apply, and too complex, threatening the reliability of coding among schools, districts, and states. The developers of SCED attempted to address the concerns raised by SNCCS users.

### ***Developing SCED***

The process of developing SCED began with an effort to compare and crosswalk CSSC and SNCCS. This comparison yielded important insights into aspects of the two systems that worked well and should be retained as well as the challenges that these systems posed and that needed to be rectified in any new system (Bradby, Pedroso, and Rogers 2007). Several guiding principles emerged from the developers' research into CSSC, SNCCS, and their relationships to each other. NCES determined that the new, voluntary system must be sufficiently flexible to meet the needs of local users, including the need to compare course information, maintain longitudinal data, and exchange coursetaking records; to be crosswalked with CSSC to allow trend analyses; and to be maintained using a process that invited local contributions and kept pace with curriculum changes over time.

Additional guiding principles specified that course descriptions would focus on course content rather than potential student populations, and users would have the option of expanding upon the basic codes to add additional course information.

Reviews and comparisons of state and district course lists and catalogs from approximately 30 states formed the basis of the structure, course codes, and course descriptions used in the SCED. An external review committee helped NCES guide the development process, while members of the National Forum on Education Statistics (NFES), curriculum experts, educators, and researchers reviewed iterations of the SCED's framework and course descriptions.

NFES, a group of 150 representatives from state and local education agencies, the federal government, and associated organizations, has updated and maintained the system since 2007 with assistance of subject area experts and professional groups. In 2011, the SCED was expanded to include prior-to-secondary coursework (including early childhood education) (NFES 2011). In addition to adding and editing course codes and descriptions, SCED version 2.0, made available March 2014, recoded the prior-to-secondary courses into the same subject area codes as the secondary courses. As of this writing, SCED version 6.0 is the most current (<https://nces.ed.gov/forum/SCED.asp>).

## SCED Framework and Structure of Course Identifiers

The SCED Framework defines four elements of a course that are represented in the 12-character course identifier (ID) (exhibit 2). Each unique course code (the 5-digit Element 1) is associated with a written course description that outlines the general topics typically covered within the code's courses. Elements 2–4 indicate the course level, the amount of Carnegie unit credit students earn by taking the course or the grade span of students who take the course, and where the course falls in a sequence of courses.

**Exhibit 2. Elements of 12-digit SCED course identifier**

Framework element		Number and character type	Description of characters used in element
1	Course Code: subject area	2 digits	One of 23 course subject areas (e.g., Mathematics, English Language and Literature, Life and Physical Sciences)
	Course Code: number	3 digits	3-digit code assigned to a course description within a subject area
2	Course Level	1 character	B (basic or remedial) G (general or regular) E (enriched or advanced) H (honors) C (college) X (no specified level of rigor)
3	Available Carnegie Unit Credit or Grade Span	4 characters (either 1 digit, decimal point, 2 digits [x.xx] or 2 pairs of digits [xxyy])	Amount of credit available upon successful completion of course (a course that meets for one period every day of the school year offers 1 Carnegie unit); or the appropriate grade span for the course (used largely for prior-to-secondary courses)
4	Sequence of Course	2 digits	First digit represents where course falls in sequence, second digit represents number of courses in sequence

SOURCE: National Forum of Education Statistics 2014.

Exhibit 3 provides an example of how the four elements combine to identify two biology courses, 03051H1.0011 and 03051R0.5012, and how the level, credit, and sequence vary depending upon the specific course offerings in a given school, district, or state. The SCED course code 03051 has an associated course description indicating course topics typically covered in such a course.

**Exhibit 3. SCED identifier for two biology courses**

course description		course level	available credit	sequence
<b>03</b>	<b>051</b>	<b>H</b>	<b>1.00</b>	<b>1 1</b>
Life and Physical Sciences (secondary)	Biology	Honors	one Carnegie unit	"1 of 1"—not part of a sequence
course description		course level	available credit	sequence
<b>03</b>	<b>051</b>	<b>R</b>	<b>0.50</b>	<b>1 2</b>
Life and Physical Sciences (secondary)	Biology	Regular	one-half Carnegie unit	"1 of 2"—1st part of a 2-part sequence of biology courses

Education agencies apply the SCED elements to code coursework according to their needs; for example, some use only Element 1, while others use all four elements. Although the first five digits of a SCED code are sufficient to classify a course, the 12-character course IDs provide significantly more information. In addition to the 12-characters in the course ID, users may add additional information about the course through *attributes*. Attributes are used at the discretion of the school or agency and are defined by users rather than SCED developers. Examples of potential attributes for a course include such characteristics as its local title, types of credits or units (in addition to Carnegie units) that can be earned through course completion, course grade point average (GPA) applicability, and whether the course fulfills a high school graduation requirement (NFES 2014). The datasets analyzed to generate the estimates in this report did not include attributes.

# CSSC/SCED Crosswalk

## Development of the Crosswalk

As more state and local education agencies established state longitudinal data systems, more agencies also adopted SCED. NCES decided that a crosswalk should be attempted between the SCED and the CSSC to determine whether the SCED could be used as the classification system for future transcript studies. Using SCED to code transcript studies would capitalize on the precoding of transcripts collected from agencies that used the SCED. A crosswalk would provide this benefit without preventing comparisons with previous transcript studies.

The crosswalk was developed in three phases, using the version of the CSSC that was used to code HSTS 2009 and SCED version 2.0 (March 2014) and in consultation with a panel of experts on high school course-coding systems and NCES high school transcript data. In Phase 1, analysts mapped courses between systems based on course titles and descriptions; most of these matches occurred between courses in comparable main categories (CSSC) and subject areas (SCED). With approximately 2,400 courses in CSSC and 1,400 base courses in SCED (that is, five-digit codes using only Element 1), this mapping resulted in four categories of course codes: CSSC codes with a one-to-one correspondence to SCED codes considered to be exact or near-exact matches; CSSC codes that closely matched SCED codes, but with minor differences in descriptions of course content that further review might resolve; CSSC codes not included in SCED; and SCED codes not included in CSSC. Over half of the CSSC codes had no match in the SCED. Of these, 39 percent had no reported credits earned by graduates in the 2009 HSTS, and 49 percent had reported credits for less than 0.5 percent of graduates.

Phase 2 incorporated SCED Elements 2 and 4 into the crosswalk process, enabling better one-to-one matches in terms of course rigor and sequence. Phase 2 also allowed many-to-one matches of multiple CSSC codes to a single SCED code. These many-to-one matches involved several types of correspondence between codes. First, even if a SCED code had been identified as an exact match to one particular CSSC code previously, other CSSC codes were also matched to that SCED code. For example, the SCED code 01056, British Literature, best matches the CSSC code 23.0811, which has the main course title British Literature Survey. During Phase 2, SCED code 01056, British Literature, was also matched to Shakespeare (23.0821),



Modern British Writers (23.0831), Victorian Literature (23.0841), Modern British Satire (23.0851), Arthurian Legend (23.0861), and Medieval Literature (23.0871).

Second, CSSC courses that are more specific in nature (e.g., Farm and Ranch Management [01.0131] and State and Community Agriculture [01.0141]) were matched to broad SCED courses (e.g., Particular Topics in Agribusiness) that were intended to capture these specific but uncommon courses. Finally, general CSSC courses were also matched to general or specific SCED courses. For example, both CSSC's Horticulture (01.0611) and Horticulture, Other (01.0600) were matched to SCED's Horticulture Science (18052).

By Phase 3, NCES had decided that SCED would be used to code transcripts collected for HSL:09 and future NCES transcript collections. Therefore, during this final phase, the crosswalk was refined and completed with additional quality control activities. More SCED codes were created, most notably for Advanced Placement (AP) courses (supported by the College Board) and International Baccalaureate (IB) courses (supported by the International Baccalaureate Organisation) that had been developed after the initial 2007 publication of SCED. Throughout Phase 3, NCES obtained extensive input from researchers and contractors who had worked with national transcript datasets and the two course-coding systems to resolve issues of interpretation and ambiguity. The final CSSC-to-SCED crosswalk is provided in appendix A. Entries are ordered by five-digit SCED code, and within five-digit SCED codes, by CSSC code.

## Crosswalk Deviations

Secondary students earn the majority of their high school credits in a few subject areas—English, mathematics, science, social studies, foreign language, and visual/performing arts—for which the main categories of the CSSC and the subject areas of the SCED align to a large extent. A few types of courses, however, do not always align well, including special education courses and subsets of courses in the core academic subject areas of English, mathematics, science, and social sciences.

### *Special Education Courses*

One consistent exception to the generally smooth alignment for the English, mathematics, science, and social studies subject areas are CSSC codes used to code special education courses (CSSC main categories 52, 54, 55, and 56, with subcategories indicating subject matter). SCED does not include a subject matter reserved for courses serving students who need or receive special education services because SCED course descriptions focus on content and avoid specifying delivery

methods, audience, or location. Instead, users may develop their own attributes to designate special education courses within a SCED subject matter (NFES 2014). In the crosswalk, CSSC codes within main categories 52, 54, 55, and 56 were mapped to a SCED code based on the course subject matter. For example, CSSC code 54.1101, Functional Consumer Math, was mapped to SCED code 02157, Consumer Math.

### ***English Courses Outside CSSC's Main Category Letters***

The majority of the CSSC courses crosswalked to SCED's English Language and Literature subject area (01) are from CSSC's main category Letters (23). Exhibit 4 displays the few CSSC codes outside of main category 23 that were crosswalked into the SCED English subject area.

**Exhibit 4. Courses other than those within Letters (CSSC) crosswalked to English Language and Literature (SCED)**

CSSC Main Category	CSSC Code	CSSC Title(s)	SCED Title	SCED Code
Foreign Languages	16.0121	English as a Second Language 1; TESOL, Beginning	English as a Second Language	01008
Foreign Languages	16.0121	English as a Second Language 2; TESOL, Intermediate	English as a Second Language	01008
Foreign Languages	16.0121	English as a Second Language 3; TESOL, Advanced	English as a Second Language	01008
Foreign Languages	16.0124	English as a Second Language, Skills Lab	English as a Second Language	01008
Foreign Languages	16.0125	Transitional English	English as a Second Language	01008
Social Sciences	45.0881	Integrated English/History 1 (History)	American Literature/History	01055
Social Sciences	45.0882	Integrated English/History 2 (History)	American Literature/History	01055
Social Sciences	45.0883	Integrated English/History 3 (History)	American Literature/History	01055
Multi/Interdisciplinary Studies	30.0721	Women's Studies in Literature	Literature of a People	01064
Philosophy and Religion	38.0211	Religion and Literature	Literature of a Theme	01065
General (Including Pre-Vocational Programs) EMH	52.0103	English/Language Arts EMH	Language Arts Laboratory	01009
General (Including Pre-Vocational Programs) EMH	52.0203	English/Language Arts EH	Language Arts Laboratory	01009
General (Including Pre-Vocational Programs) EMH	52.0301	English/Language Arts Deaf	Language Arts Laboratory	01009

See notes at end of table.

**Exhibit 4. Courses other than those within Letters (CSSC) crosswalked to English Language and Literature (SCED)—Continued**

<b>CSSC Main Category</b>	<b>CSSC Code</b>	<b>CSSC Title(s)</b>	<b>SCED Title</b>	<b>SCED Code</b>
Special Education	54.2011	Functional Language Arts 1	Language Arts Laboratory	01009
Special Education	54.2019	Functional Language Arts 1, not for credit	Language Arts Laboratory	01009
Special Education	54.2021	Functional Language Arts 2	Language Arts Laboratory	01009
Special Education	54.2029	Functional Language Arts 2, not for credit	Language Arts Laboratory	01009
Special Education	54.2031	Functional Language Arts 3	Language Arts Laboratory	01009
Special Education	54.2039	Functional Language Arts 3, not for credit	Language Arts Laboratory	01009
Special Education	54.2041	Functional Language Arts 4	Language Arts Laboratory	01009
Special Education	54.2049	Functional Language Arts 4, not for credit	Language Arts Laboratory	01009
Special Education	54.2051	Functional Vocational English	Applied English and Communications	01159
Special Education	54.2059	Functional Vocational English, not for credit	Applied English and Communications	01159
Special Education	54.2101	Functional Reading	Corrective Reading	01068
Special Education	54.2109	Functional Reading, not for credit	Corrective Reading	01068
Special Education	54.2201	Functional Oral Communication	Applied English and Communications	01159
Special Education	54.2209	Functional Oral Communication, not for credit	Applied English and Communications	01159
Special Education	54.2301	Functional Writing	Applied English and Communications	01159
Special Education	54.2309	Functional Writing, not for credit	Applied English and Communications	01159
Special Education - Resource Curriculum	56.2300	Special Education Language Arts	Language Arts Laboratory	01009
Special Education - Resource Curriculum	56.2310	Special Education Reading	Corrective Reading	01068
Special Education - Resource Curriculum	56.2311	Resource Reading	Corrective Reading	01068
Special Education - Resource Curriculum	56.2319	Resource Reading, not taken for credit	Corrective Reading	01068
Special Education - Resource Curriculum	56.2320	Special Education Writing - Middle School Level	Writing	01139
Special Education - Resource Curriculum	56.2322	Resource Room English 2 (Special Education)	Language Arts Laboratory	01009
Special Education - Resource Curriculum	56.2329	Resource Writing, not for credit	Language Arts Laboratory	01009

NOTE: EH = emotionally handicapped; EMH = educable mentally handicapped; TESOL = teaching English to speakers of other languages.

### ***Mathematics Courses Outside CSSC's Main Category Mathematics***

Similarly, most of the CSSC courses crosswalked to SCED's Mathematics subject area (02) are from CSSC's Mathematics main category (27). Exhibit 5 displays courses that were not classified in CSSC's Mathematics main category but were classified in SCED's Mathematics subject area.

**Exhibit 5. Courses other than those within Mathematics (CSSC) crosswalked to Mathematics (SCED)**

<b>CSSC Main Category</b>	<b>CSSC Code</b>	<b>CSSC Title(s)</b>	<b>SCED Title</b>	<b>SCED Code</b>
Agribusiness and Agricultural Production	01.0151	Agricultural Mathematics	Occupationally Applied Math	02152
Allied Health	17.0651	Nurse's Mathematics	Occupationally Applied Math	02152
Business and Office	07.0171	Business Mathematics 1; Business Arithmetic; Career Computation 1	Business Math	02154
Business and Office	07.0172	Business Mathematics 2; Business Arithmetic 2; Career Computation 2	Business Math	02154
Business and Office	07.0221	Financial Mathematics 1; Business Arithmetic; Career Computation 1	Business Math	02154
Computer and Information Sciences	11.0121	Computer Mathematics 1; Computer Problem Solving; Mathematics and Computing	Computer Math with Algebra	02156
Computer and Information Sciences	11.0122	Computer Mathematics 2	Computer Math with Algebra	02156
General (Including Pre-Vocational Programs) EMH	52.0102	Mathematics EMH	Particular Topics in Foundation Math	02003
General (Including Pre-Vocational Programs) EMH	52.0204	Mathematics EH	Particular Topics in Foundation Math	02003
General (Including Pre-Vocational Programs) EMH	52.0302	Mathematics Deaf	Particular Topics in Foundation Math	02003
Special Education	54.1001	General Math Skills	Particular Topics in Foundation Math	02003
Special Education	54.1009	Functional Math Skills, not for credit	Particular Topics in Foundation Math	02003
Special Education	54.1101	Functional Consumer Math	Consumer Math	02157
Special Education	54.1109	Functional Consumer Math, not for credit	Consumer Math	02157
Special Education	54.1201	Functional Vocational Math	Particular Topics in Foundation Math	02003
Special Education	54.1209	Functional Vocational Math, not for credit	Particular Topics in Foundation Math	02003

See notes at end of table.

**Exhibit 5. Courses other than those within Mathematics (CSSC) crosswalked to Mathematics (SCED)—  
Continued**

CSSC Main Category	CSSC Code	CSSC Title(s)	SCED Title	SCED Code
Special Education - Resource Curriculum	56.2700	Special Education Math	Foundation Math—Other	02049
Special Education - Resource Curriculum	56.2701	Resource General Math	Foundation Math—Other	02049
Special Education - Resource Curriculum	56.2709	Resource General Math, not for credit	Foundation Math—Other	02049
Special Education - Resource Curriculum	56.2711	Resource Vocational Math	Foundation Math—Other	02049
Special Education - Resource Curriculum	56.2719	Resource Vocational Math, not for credit	Foundation Math—Other	02049
Special Education - Resource Curriculum	56.2721	Resource Consumer Math	Consumer Math	02157
Special Education - Resource Curriculum	56.2729	Resource Consumer Math, not for credit	Consumer Math	02157

NOTE: EH = emotionally handicapped; EMH = educable mentally handicapped.

***Science Courses Outside CSSC's Main Categories for the Sciences***

Life and Physical Sciences (SCED subject area 03) contains course codes from the CSSC main categories Life Sciences (26), Physical Sciences (40), and Physical Sciences Technologies (41). Courses from other CSSC main categories that were crosswalked to Life and Physical Sciences are enumerated in exhibit 6.

**Exhibit 6. Courses other than those within Life Sciences, Physical Sciences, and Physical Sciences Technologies (CSSC) crosswalked to Life and Physical Sciences (SCED)**

CSSC Main Category	CSSC Code	CSSC Title(s)	SCED Title	SCED Code
Multi/Interdisciplinary Studies	30.0100	Biological and Physical Sciences, Other	Life and Physical Sciences—Other	03999
Multi/Interdisciplinary Studies	30.0111	Science, Unified; Science, Basic; Science, General; Science Ideas; Science Workshop; Science, Applied; Physical and Life Science	Unified Science	03202
Multi/Interdisciplinary Studies	30.0112	College Pre-Science Skills	Life and Physical Sciences—Other	03999
Multi/Interdisciplinary Studies	30.0113	Science, Unified, Advanced; Science, Integrated, Advanced	Unified Science	03202
Multi/Interdisciplinary Studies	30.0121	Science Study, Independent; Science Investigations; Science Research Techniques	Life and Physical Sciences—Independent Study	03997

See notes at end of table.

**Exhibit 6. Courses other than those within Life Sciences, Physical Sciences, and Physical Sciences Technologies (CSSC) crosswalked to Life and Physical Sciences (SCED)—Continued**

CSSC Main Category	CSSC Code	CSSC Title(s)	SCED Title	SCED Code
Multi/Interdisciplinary Studies	30.0131	Outdoor Education	Life and Physical Sciences— Other	03999
Multi/Interdisciplinary Studies	30.0321	IB Design Technology, Standard	IB Design Technology	03206
Multi/Interdisciplinary Studies	30.0322	IB Design Technology, Higher	IB Design Technology	03206
Multi/Interdisciplinary Studies	30.0600	Systems Science, Other	Science, Technology, and Society	03210
Multi/Interdisciplinary Studies	30.0611	Futuristics; Science Technology and the Future; History of the Future; Future Worlds	Life and Physical Sciences— Other	03999
Multi/Interdisciplinary Studies	30.0621	Environmental Science; Environmental Issues; Human Communities; People Technology and the Environment	Environmental Science	03003
Multi/Interdisciplinary Studies	30.0623	IB Environmental Studies	IB Environmental Science	03208
Multi/Interdisciplinary Studies	30.0631	Energy and Environment	Energy and the Environment	03012
Personal and Social Development: Citizenship/Civic Activities	33.0112	Life Sciences Laboratory Assistant/Aide	Life and Physical Sciences— Aide	03995
Personal and Social Development: Citizenship/Civic Activities	33.0113	Physical Sciences Laboratory Assistant/Aide	Life and Physical Sciences— Aide	03995
Social Sciences: Social Studies	45.0707	Physical Geography	Physical Geography	03007
General (Including Pre- Vocational Programs) EMH	52.0104	Science EMH	Life and Physical Sciences— Other	03999
General (Including Pre- Vocational Programs) EMH	52.0205	Science EH	Life and Physical Sciences— Other	03999
General (Including Pre- Vocational Programs) EMH	52.0303	Science Deaf	Life and Physical Sciences— Other	03999
Special Education	54.4001	Functional Science	Life and Physical Sciences— Other	03999
Special Education	54.4009	Functional Science, not for credit	Life and Physical Sciences— Other	03999
Special Education - Resource Curriculum	56.4000	Special Education General Science	Life and Physical Sciences— Other	03999
Special Education - Resource Curriculum	56.4001	Resource General Science	Life and Physical Sciences— Other	03999
Special Education - Resource Curriculum	56.4009	Resource General Science, not for credit	Life and Physical Sciences— Other	03999

NOTE: EH = emotionally handicapped; EMH = educable mentally handicapped.

## ***Social Sciences and History Courses Outside CSSC's Main Categories for Social Sciences***

With two exceptions, SCED's Social Sciences and History (04) contains crosswalked courses from the CSSC main categories of Area and Ethnic Studies (05), Law (22), Psychology (42), and Social Sciences (45). The first exception is CSSC code 45.0707, Physical Geography, which was matched to SCED's Life and Physical Sciences subject area (code 03007, Physical Geography). The second exception is CSSC code 45.1028, Political Leadership, which was matched to SCED's Miscellaneous subject area (code 22101, Leadership). Descriptors for both CSSC code 45.1028 and SCED code 22101 denote a course for such student leaders as officers of student groups and governance bodies.

In addition to codes in CSSC's main categories of Area and Ethnic Studies, Law, Psychology, and Social Sciences, 22 courses in the CSSC main categories of Liberal/General Studies (24), Multi/Interdisciplinary Studies (30), and Philosophy (38) were crosswalked to SCED's Social Sciences and History subject area (exhibit 7). The eight functional, special education, and resource CSSC course codes that were crosswalked to SCED's Social Sciences and History subject area are also listed in exhibit 7.

**Exhibit 7. Courses other than those within Area and Ethnic Studies, Law, Psychology, and Social Sciences (CSSC) crosswalked to Social Sciences and History (SCED)**

<b>CSSC Main Category</b>	<b>CSSC Code</b>	<b>CSSC Title(s)</b>	<b>SCED Title</b>	<b>SCED Code</b>
Liberal/General Studies	24.0100	Liberal/General Studies, Other	Social Sciences and History—Other	04999
Liberal/General Studies	24.0111	Liberal Studies	Particular Topics in Humanities	04310
Multi/Interdisciplinary Studies	30.0400	Humanities and Social Sciences, Other	Social Sciences and History—Other	04999
Multi/Interdisciplinary Studies	30.0411	Humanities; People and their Culture	Humanities Survey	04301
Multi/Interdisciplinary Studies	30.0421	Humanities, European; Humanities of Western Civilization	Issues of Western Humanities	04303
Multi/Interdisciplinary Studies	30.0431	Humanities, American	Particular Topics in Humanities	04310
Multi/Interdisciplinary Studies	30.0441	Humanities, African	Particular Topics in Humanities	04310
Multi/Interdisciplinary Studies	30.0451	Humanities, Near East and Far East	Particular Topics in Humanities	04310
Multi/Interdisciplinary Studies	30.0500	Peace Studies, Other	Particular Topics in Humanities	04310
Multi/Interdisciplinary Studies	30.0700	Women's Studies, Other	Social Sciences and History—Other	04999

See notes at end of table.

**Exhibit 7. Courses other than those within Area and Ethnic Studies, Law, Psychology, and Social Sciences (CSSC) crosswalked to Social Sciences and History (SCED)—Continued**

CSSC Main Category	CSSC Code	CSSC Title(s)	SCED Title	SCED Code
Multi/Interdisciplinary Studies	30.0711	Women's Studies; Women in American Society	U.S. Gender Studies	04108
Multi/Interdisciplinary Studies	30.9900	Multi/Interdisciplinary Studies, Other	Social Sciences and History—Other	04999
Basic Skills	32.0119 <sup>1</sup>	Contemporary Issues, Basic Skills	United States and World Affairs	04156
Citizenship/Civic Activities	33.0161 <sup>1</sup>	U.S. History, Remedial	U.S. History—Comprehensive	04101
Philosophy and Religion	38.0100	Philosophy, Other	Particular Topics in Philosophy	04307
Philosophy and Religion	38.0111	Philosophy; Systems of Philosophy; Philosophy Seminar	Philosophy	04306
Philosophy and Religion	38.0112	IB Philosophy	IB Philosophy	04309
Philosophy and Religion	38.0121	Ethics	Particular Topics in Philosophy	04307
Philosophy and Religion	38.0131	Logic; English Language, Logic, and Reason; Clear Thinking	Particular Topics in Philosophy	04307
Philosophy and Religion	38.0141	Epistemics	Particular Topics in Philosophy	04307
Philosophy and Religion	38.0142	IB Theory of Knowledge	IB Theory of Knowledge	04304
Philosophy and Religion	38.0151	Social Justice Issues; Peace and Social Justice	Particular Topics in Philosophy	04307
General (Including Pre-Vocational Programs) EMH	52.0105	Social Studies EMH	Social Sciences and History—Other	04999
General (Including Pre-Vocational Programs) EMH	52.0206	Social Studies EH	Social Sciences and History—Other	04999
General (Including Pre-Vocational Programs) EMH	52.0304	Social Studies Deaf	Social Sciences and History—Other	04999
Special Education	54.4501	Functional Social Studies	Social Sciences—Other	04299
Special Education	54.4509	Functional Social Studies, not for credit	Social Sciences—Other	04299
Special Education - Resource Curriculum	56.4500	Special Education Social Studies	Social Sciences—Other	04299
Special Education - Resource Curriculum	56.4501	Resource Social Studies	Social Sciences—Other	04299
Special Education - Resource Curriculum	56.4509	Resource Social Studies, not for credit	Social Sciences—Other	04299

<sup>1</sup> These codes were moved to main category 45 (Social Studies) in more recent iterations of the CSSC.

NOTE: EH = emotionally handicapped; EMH = educable mentally handicapped.



# Issues Related to Comparing Secondary School Cohorts' Coursetaking

Differences among the NCES secondary longitudinal studies' samples as well as differences between CSSC and SCED may affect choices researchers make when analyzing secondary longitudinal study data to investigate high school coursetaking over time. This section describes the four secondary school longitudinal datasets that were analyzed for this report. It then discusses how researchers may compensate for differences among the datasets to ensure comparable analyses over time. The section concludes with a discussion of how course codes were aggregated to create comparable subject area categories for CSSC- and SCED-coded data.

## Data Sources

The data analyzed in this report were collected through the four longitudinal studies of secondary school students begun by NCES between 1980 and 2009: the High School and Beyond Longitudinal Study of 1980 (HS&B), the National Education Longitudinal Study of 1988 (NELS:88), the Education Longitudinal Study of 2002 (ELS:2002), and the High School Longitudinal Study of 2009 (HSL:09). Descriptions of each of these datasets follow.

### *High School and Beyond*

The HS&B longitudinal survey was first administered in 1980 to stratified, nationally representative, probability samples of high school sophomores and seniors. This report used the 1980 sophomore cohort sample, who were administered follow-up surveys in 1982, 1984, 1986, and 1992.

As part of the first follow-up data collection, high school transcripts were collected for a probability subsample of 18,500 members of the 1980 sophomore cohort, most of whom were high school seniors in September 1982. For this report, the demographic characteristics of the 1982 graduates were drawn from the base-year or first follow-up data file and their coursetaking information was drawn from the transcript data file. More information on the first follow-up and transcript data files, including detailed descriptions of response rates, can be found in *High School and Beyond Transcripts Survey (1982)*, *Data File User's Manual* (Jones et al. 1983).

### ***National Education Longitudinal Study of 1988***

NELS:88 began by administering questionnaires to a stratified, nationally representative, probability sample of 8th-graders in 1988. The first and second follow-ups revisited the same sample of students in 1990 and 1992, when most of them were in the 10th and 12th grades, respectively. The third and fourth follow-ups were conducted in 1994 and 2000, approximately 2 and 8 years after their scheduled graduation from high school.

Unlike HS&B, for each in-school follow-up (i.e., 1990 and 1992), the NELS student sample was freshened to obtain a representative, cross-sectional grade-cohort (i.e., 10th-graders in 1990 and 12th-graders in 1992). To freshen the sample, 1990 sophomores and 1992 seniors who had not been 8th-graders in 1988 were randomly selected to participate in the 1990 and 1992 data collections, respectively. The resulting samples of 1990 sophomores and 1992 seniors represent all U.S. 1990 sophomores and 1992 seniors.

In addition, as part of the second follow-up in 1992, high school transcripts were collected for the following groups of students: those who attended the subset of second follow-up schools that were selected for the transcript study, all dropouts, all early graduates, and sample members with disabilities that precluded them from completing a student questionnaire and cognitive test battery in the base year and the first and second follow-ups. Of the approximately 17,300 students in the transcript file, about 13,500 were identified as high school graduates with complete transcripts.

For this report, the demographic characteristics of 1992 high school graduates came from the NELS:88 second follow-up data file, and their coursetaking information came from the survey's transcript data file. For more information on the NELS:88 second follow-up transcript study, including detailed descriptions of response rates, see *NELS:88 Second Follow-up: Transcript Component Data File User's Manual* (Ingels et al. 1995).

### ***Education Longitudinal Study of 2002***

ELS:2002 began with a stratified, nationally representative, probability sample of high school sophomores in 2002. Students were surveyed three times after the base-year data collection, in 2004, 2006, and 2012. Transcripts were collected in fall 2004, after most students' 12th-grade year, for students who completed either the base-year or first follow-up questionnaire.<sup>3</sup> As with NELS:88, the sample was freshened in

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<sup>3</sup> For questionnaire-eligible sample members, transcript eligibility was based on participation (completing at least the student questionnaire) in either or both surveys. Transcripts were also collected for questionnaire-ineligible sample members (i.e., the small number of individuals who could not be surveyed because of severe disability or a language barrier, and who appear only on restricted use files).

2004 to provide a nationally representative sample of 12th-graders. Demographic data were drawn from first follow-up data, and coursetaking data were drawn from the transcript data file. For more information on the ELS:2002 second follow-up transcript study, including detailed descriptions of response rates, see *ELS:2002 Base-Year to Second Follow-up Data File Documentation* (Ingels et al. 2007).

### **High School Longitudinal Study of 2009**

HSLs:09 began with a stratified, nationally representative, probability sample of high school freshmen, defined as 9th-graders attending schools that included both 9th and 11th grades, in 2009. After the base year, students were surveyed during the first follow-up in 2012, an update in 2013, and the second follow-up in 2016. Transcripts were collected following the 2012–13 school year, most students' 12th-grade year, for students who completed either the base-year or first follow-up questionnaire.<sup>4</sup> Demographic data were drawn from the 2013 Update data, and coursetaking data were drawn from the transcript data file.

Whereas NELS:88 and ELS:2002 freshened their cohorts in follow-up surveys to develop multiple cohorts (three in NELS:88 and two in ELS:2002), HSLs:09 includes only one cohort. The earlier studies freshened the sample to facilitate cross-cohort comparisons (e.g., trends among high school seniors in 1972, 1980, and 1992). Because HSLs:09 has no specific cross-cohort comparison points within the family of NCEs secondary longitudinal studies, this rationale for freshening did not apply. Freshening also was made problematic by the fact that the 9th-grade sample does not represent all (or nearly all) 9th-graders (schools were eligible if and only if they had both a 9th grade and an 11th grade at the time of sampling). For more information on the HSLs:09 transcript study, including detailed descriptions of response rates, see *High School Longitudinal Study of 2009 (HSLs:09) 2013 Update and High School Transcript Data File Documentation* (Ingels et al. 2015).

## **Ensuring Comparability of Samples Among Cohorts**

At least two issues affect sample comparability among the four cohorts: whether students' opportunities to earn credits across cohorts were equivalent and whether the samples of the four cohorts represent equivalent populations. This section describes these two issues and the methods used in this study to minimize their impact on comparability.

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<sup>4</sup> Transcripts collected included those from students incapable of completing the first follow-up questionnaire due to language, physical, or intellectual barriers; questionnaire-capable students who responded in neither the base year nor the first follow-up; and deceased and study withdrawal sample members.

## ***Controlling for Time in School***

The number of credits students earn is necessarily related to the amount of time they spend in school: Students who drop out of school in the 11th grade will not have had the opportunity to earn as many credits as students who complete 12th grade, for example. Consequently, if dropout rates or the timing of dropout varies among cohorts, estimates of credits completed will be biased for some cohorts relative to others. Student transfer among schools can also lead to bias. For students who attended multiple high schools, data collectors had to collect transcripts for all high schools attended, and if some transcripts were not available for some students, the credit totals for those who had missing transcripts would be biased downward.

Therefore, following the recommendations of Ingels and Taylor (1995), the analysis was restricted to sample members who were high school graduates and had a complete transcript. High school graduates were defined as spring-term senior cohort members<sup>5</sup> who graduated with an honors or standard diploma by August 31 of their graduating year (1982 for HS&B, 1992 for NELS:88, 2004 for ELS:2002, and 2013 for HSLS:09 sample members). Sample members had a *complete transcript* if their transcript records (which could aggregate transcripts from multiple schools) included at least 16 Carnegie units (a Carnegie unit is a credit hour, i.e., the equivalent of a course taken every day, 1 period per day, for a full school year), with a positive, nonzero number of units completed in English.

## ***Comparing Samples Among Studies***

The different sampling strategies used among the studies lead to questions regarding the comparability of the samples across the studies and the populations they represent. In this section, we address two issues regarding comparability: first, the effect of sample freshening in data collection waves after the base year; and second, the effect of excluding schools that offered grades 10–12 from the initial school sample. This section addresses each of these concerns in turn.

### ***Freshened vs. Nonfreshened Samples of 12th-Graders***

All cohorts were first sampled before students were in 12th grade (i.e., 8th-graders in NELS:88, high school freshmen in HSLS:09, and high school sophomores in HS&B and ELS:2002). By the time most students from each cohort reached the 12th grade, however, the samples did not represent all 12th-graders in that year because it did

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<sup>5</sup> Spring-term senior cohort members were defined as students enrolled in the spring term of their cohort's respective graduating year. A small number of early graduates (not enrolled in the spring term of the typical graduating year) were excluded on this basis. A slightly different convention may be used for basic reporting in which all early graduates are explicitly accounted for; however, this report follows the spring term definition in order to provide coursetaking results for 4-year on-time high school graduates.

not include, for example, students who had repeated a year since they were first sampled or those who accelerated a year during high school. Two of the studies, NELS:88 and ELS:2002, addressed this issue by freshening their samples when most students in the original sample were in 12th grade; that is, they added 12th-grade students to the original sample to represent 12th-graders who would otherwise be excluded.

Neither the HS&B sample of 10th-graders nor the HSLS:09 sample of 9th-graders, however, was freshened at the time of the 12th-grade follow-up data collection. Consequently, 1982 high school graduates among the sample of 1980 high school sophomores in HS&B and 2013 high school graduates among the sample of 2009 9th-graders in HSLS:09 may not represent the population of high school graduates in their respective years. Dalton and colleagues addressed the issue of the freshened samples in NELS:88 and ELS:2002 versus the nonfreshened sample in HS&B in an earlier study of the first three secondary cohorts (Dalton et al. 2007). Using NELS:88 and ELS:2002 questionnaire data, the analysts compared estimates of demographic and other student characteristics derived from the freshened samples with those of the nonfreshened samples and demonstrated that the freshening process had little or negligible impact on estimates of the demographic and other characteristics of 12th-graders in 1992 and 2004, respectively.

For NELS:88, no statistically significant differences were observed between the alternatively defined senior cohorts [freshened vs. nonfreshened] in terms of student characteristics of sex, race/ethnicity, socioeconomic status (SES) quartile, school sector, region, or senior year math test score. For ELS:2002, only one statistically significant difference was observed: a two percentage-point difference in the percentage of seniors who were non-Hispanic White. Sixty-four percent of sophomores who were seniors two years later [nonfreshened sample] were White in 2004, while 62 percent of all seniors [freshened] were White in 2004 (Dalton et al. 2007, p. A-16).

Dalton and colleagues (2007) also examined the impact of freshening on coursetaking estimates, comparing coursetaking of the freshened samples with that of the nonfreshened sample. For both NELS:88 and ELS:2002, estimates were computed for the total number of high school credits earned, the number of mathematics and science credits earned, and the level of mathematics and science courses taken (Dalton et al. 2007). The conclusion was consistent with that reached on demographic characteristics:

For both NELS:88 and ELS:2002 surveys, no statistical differences in estimates were observed in comparisons between the freshened senior cohort and the unfreshened senior cohort. Though there is an apparent tendency for the unfreshened estimates to be slightly larger than the freshened estimates (particularly in the NELS:88 estimates of course credits earned), none of these differences were statistically significant (Dalton et al. 2007, p. A-20).

In other words, after weight adjustments for nonresponse and sample attrition, the sample of 10th-graders in 2002 approximately represented the nation's 12th-graders in 2004 with respect to a set of interview-based variables measuring largely demographic characteristics, even without freshening. The authors also compared the HS&B 1980 sophomore cohort as seniors (in 1982) with the 1980 senior cohort (in 1980) and concluded that the 1980 HS&B sophomore cohort 2 years later is a good approximation of the fully representative senior cohort in 1982.

### Excluding Schools That Offer Only Grades 10–12 in Base-Year Sample

HS&B, NELS:88, and ELS:2002 sampled 10th-graders from a sample of high schools, but HSLs:09 first sampled students as 9th-graders from a sample of schools that offered both 9th and 11th grades. The HSLs:09 sample, therefore, excluded schools that served only grades 10–12 and their students. The percentage of graduates who attended schools with no 9th grade when they were 10th-graders ranged from 5 percent in 2004 to 26 percent in 1982 (table 1). With the exception of HSLs:09 sample members who transferred to a 10–12 school, the HSLs:09 sample does not represent these students.

**Table 1. Percentage distribution of high school graduates by grade span of school attended as 10th-graders: 1982, 1992, and 2004**

<b>Lowest grade offered in school attended in 10th grade</b>	<b>1982</b>	<b>1992</b>	<b>2004</b>
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Grade 5 or lower	8.4	4.9	5.6
Grades 6–8	7.3	9.0	7.4
Grade 9	57.2	72.3	81.5
Grade 10	25.6	13.8	4.8
Missing	1.4 !	†	0.7 !

† Not applicable.

! Interpret data with caution. Estimate is unstable because the standard error is between 30 and 50 percent of the estimate.

NOTE: Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; and Education Longitudinal Study of 2002 (ELS:2002), First Follow-up and High School Transcript Study.

By comparing estimates generated from HS&B, NELS, and ELS samples of high school graduates with and without those who attended grade 10–12 schools as 10th-graders, one can examine the effects of these different sampling decisions. Tables 2 through 4 present distributions of the three cohorts with and without graduates who attended 10–12 schools as 10th-graders, referred to as “full sample” and “subsample,” respectively. Within each cohort, some statistically significant differences exist between the two sets of distributions, although the differences are generally small. In HS&B, the subsample contains lower percentages of Black students (9 percent vs. 10 percent) and students who attended public schools (85 percent vs. 88 percent) or urban schools in 10th grade (16 percent vs. 18 percent) than the full sample. On the other hand, relative to the full sample, the subsample includes higher percentages of students who attended religious (12 percent vs. 9 percent) or rural schools in 10th grade (34 percent vs. 32 percent) and whose parents held a master’s or higher degree (6.1 percent vs. 5.6 percent).

In NELS, the subsample contains higher percentages of Black students, students whose parents had no more than a high school education, and students from low- or low-middle-socioeconomic status (SES) families than the full sample. The subsample also includes lower percentages of White students, students whose parents had a bachelor’s or master’s degree, students from high-SES families, and students who attended public schools in 10th grade. The differences for White students, low-SES students, and low-middle-SES students are 1.0, 1.8, and 1.4 percentage points, respectively, and the remaining differences are smaller than 1 percentage point.

In ELS, the subsample contains higher percentages of Hispanic students, students whose parents did not finish high school, and students who attended non-Catholic private schools or rural schools in 10th grade; and lower percentages of White and Asian students and students who attended public schools in 10th grade. The average numbers of mathematics, science, and social study credits earned by students in the subsample are slightly higher than those earned by students in the full sample. All the differences noted are smaller than 1 percentage point or 0.05 credits.

**Table 2. Percentage distribution of high school graduates' selected characteristics and average number of credits earned in selected subjects, by sample: 1982**

<b>Selected characteristics</b>	<b>All 1982 high school graduates</b>	<b>All 1982 high school graduates minus those attending 10–12 grade span schools in 10th grade</b>
<b>Total</b>	<b>100.0</b>	<b>100.0</b>
Sex		
Male	47.5	47.3
Female	52.5	52.7
Race/ethnicity <sup>1</sup>		
White	75.7	76.7
Black	9.9	8.9 *
Hispanic	10.6	10.7
Asian/Pacific Islander	1.6	1.7
American Indian/Alaska Native	1.2	1.3
Other	0.9	0.8
Parents' education		
Did not complete high school	29.1	29.0
High school credential	4.9	4.8
Less than 2 years of trade school	7.8	7.9
2 or more years of trade school	8.7	8.8
Less than 2 years of college	9.1	9.1
2 or more years of college	13.2	13.3
Bachelor's degree	9.3	9.4
Master's or higher degree	5.6	6.1 *
Don't know	8.5	7.9
Not applicable	3.8	3.7
Family socioeconomic status		
Lowest 25 percent	18.3	18.2
Lower middle 25 percent	22.1	22.3
Upper middle 25 percent	23.9	24.3
Highest 25 percent	24.7	25.4
Missing	2.9	2.7 !
Not applicable	8.1	7.1 *
10th-grade school sector		
Public	88.2	85.0 *
Religious	9.0	12.5 *
Private, other	1.6 !	2.2 !
Missing	1.2 !	‡
10th-grade school urbanicity		
Urban	18.5	15.5 *
Suburban	50.0	50.3
Rural	31.5	34.2 *

See notes at end of table.



**Table 2. Percentage distribution of high school graduates' selected characteristics and average number of credits earned in selected subjects, by sample: 1982—Continued**

<b>Selected characteristics</b>	<b>All 1982 high school graduates</b>	<b>All 1982 high school graduates minus those attending 10–12 grade span schools in 10th grade</b>
10th-grade mathematics proficiency level		
Lowest 25 percent	14.8	14.2
Lower middle 25 percent	19.5	20.0
Upper middle 25 percent	24.2	24.7
Highest 25 percent	27.6	28.2
Missing	5.8	5.8
Not applicable	8.1	7.1 *
Educational expectations in 10th grade		
Not complete high school	0.6	0.5
High school credential	18.5	18.8
Less than 2 years of trade school	5.0	5.1
2 or more years of trade school	9.9	9.9
Less than 2 years of college	2.6	2.5
2 or more years of college	12.1	11.9
Bachelor's degree	22.8	23.5
Master's degree	8.6	8.5
Other graduate or professional degree	9.5	9.8
Multiple response	1.1 !	1.1 !
Refused	0.7	0.7
Missing	8.6	7.6
Average total number of credits earned <sup>2</sup>		
English	3.91	3.92
Math	2.66	2.66
Science	2.25	2.26
Social studies	3.24	3.25

! Interpret data with caution. Estimate is unstable because the standard error is between 30 and 50 percent of the estimate.

\* Indicates statistically significant difference at  $p < .05$  between the two samples.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin.

<sup>2</sup> Based on courses classified by the Classification of Secondary School Courses.

NOTE: Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study.

**Table 3. Percentage distribution of high school graduates' selected characteristics and average number of credits earned in selected subjects, by sample: 1992**

<b>Selected characteristics</b>	<b>All 1992 high school graduates</b>	<b>All 1992 high school graduates minus those attending 10–12 grade span schools in 10th grade</b>	
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	
Sex			
Male	49.6	49.0	
Female	50.4	51.0	
Race/ethnicity <sup>1</sup>			
White	76.2	75.2	*
Black	10.6	11.4	*
Hispanic	8.5	8.8	
Asian/Pacific Islander	3.9	3.8	
American Indian/Alaska Native	0.8	0.8	
Missing	# !	# !	
Parents' education			
Did not complete high school	6.6	6.9	*
High school credential	19.9	20.0	*
Some college	41.3	42.5	
Bachelor's degree	15.9	15.7	*
Master's degree	9.9	9.0	*
Graduate or professional degree	5.6	5.1	
Don't know	0.6 !	0.7 !	
Missing	0.1 !	‡	
Family socioeconomic status			
Lowest 25 percent	17.7	19.5	*
Lower middle 25 percent	24.1	25.5	*
Upper middle 25 percent	25.3	26.8	
Highest 25 percent	29.0	28.1	*
Missing	3.9	‡	
10th-grade school sector			
Public	88.9	88.7	*
Catholic	6.5	8.0	
Private, other religious	1.5	1.9	
Private, not religious	1.1	1.4	
Private, not ascertained	‡	‡	
Missing	0.6 !	#	
10th-grade school urbanicity			
Urban	26.6	25.6	
Suburban	41.5	39.8	
Rural	31.5	34.5	
Missing	‡	#	

See notes at end of table.

**Table 3. Percentage distribution of high school graduates' selected characteristics and average number of credits earned in selected subjects, by sample: 1992—Continued**

<b>Selected characteristics</b>	<b>All 1992 high school graduates</b>	<b>All 1992 high school graduates minus those attending 10–12 grade span schools in 10th grade</b>
10th-grade mathematics proficiency level		
Below level 1	7.5	7.5
Level 1	18.4	19.5
Level 2	11.7	12.7
Level 3	22.0	23.6
Level 4	21.0	21.3
Missing	11.8	12.5
Test not completed	7.5	2.9 *
Educational expectations in 10th grade		
Not complete high school	0.1	0.2
High school credential	6.2	6.6
Less than 2 years of trade school	3.2	3.2
2 or more years of trade school	7.2	6.9
Less than 2 years of college	3.0	2.8
2 or more years of college	14.4	14.1
Bachelor's degree	34.1	35.3
Master's degree	16.5	16.1
Other graduate or professional degree	14.4	13.9
Refused	0.1 †	0.1 †
Missing	0.7	0.8
Average total number of credits earned <sup>2</sup>		
English	4.10	4.10
Math	3.23	3.21
Science	2.95	2.97
Social studies	3.47	3.46

# Rounds to zero.

! Interpret data with caution. Estimate is unstable because the standard error is between 30 and 50 percent of the estimate.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate, or the standard error is 50 percent of the estimate or larger.

\* Indicates statistically significant difference at  $p < .05$  between the two samples.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin.

<sup>2</sup> Based on courses classified by the Classification of Secondary School Courses.

NOTE: Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study.

**Table 4. Percentage distribution of high school graduates' selected characteristics and average number of credits earned in selected subjects, by sample: 2004**

<b>Selected characteristics</b>	<b>All 2004 high school graduates</b>	<b>All 2004 high school graduates minus those attending 10–12 grade span schools in 10th grade</b>	
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	
Sex			
Male	48.7	48.8	
Female	51.3	51.2	
Race/ethnicity <sup>1</sup>			
White	64.1	63.5	*
Black	12.4	12.5	
Hispanic	14.2	14.5	*
Asian/Pacific Islander	4.5	4.5	*
American Indian/Alaska Native	0.8	0.8	
Two or more races	4.1	4.1	
Parents' education			
Did not finish high school	5.1	5.2	*
Earned a high school credential	19.6	19.6	
Attended 2-year school, no degree	11.1	11.2	
Graduated from 2-year school	11.3	11.4	
Attended 4-year college, no bachelor's degree	11.2	11.2	
Earned a bachelor's degree	23.5	23.4	
Completed master's degree or equivalent	12.4	12.2	
Completed graduate or professional degree	5.8	5.8	
Family socioeconomic status			
Lowest 25 percent	19.5	19.7	
Lower middle 25 percent	22.6	22.7	
Upper middle 25 percent	24.3	24.3	
Highest 25 percent	26.2	26.1	
Not applicable	2.1	2.1	
Missing	5.4	5.2	
10th-grade school sector			
Public	91.6	91.2	*
Catholic	4.8	5.1	
Other private	3.6	3.8	*
Missing	±	±	
10th-grade school urbanicity			
Urban	27.9	27.6	
Suburban	52.1	51.9	
Rural	20.0	20.5	*

See notes at end of table.

**Table 4. Percentage distribution of high school graduates' selected characteristics and average number of credits earned in selected subjects, by sample: 2004—Continued**

<b>Selected characteristics</b>	<b>All 2004 high school graduates</b>	<b>All 2004 high school graduates minus those attending 10–12 grade span schools in 10th grade</b>
10th-grade math achievement		
Lowest 25 percent	18.2	18.4
Lower middle 25 percent	23.9	23.7
Upper middle 25 percent	26.9	27.0
Highest 25 percent	28.9	28.8
Not applicable	2.1	2.1
Educational expectations in 10th grade		
Not complete high school	0.4	0.4
High school credential	4.0	4.0
Attend 2-year institution, may not complete	5.0	5.0
Attend college, not complete 4-year degree	2.9	2.9
Bachelor's degree	35.2	35.1
Master's degree	20.6	20.7
Other graduate or professional degree	16.3	16.3
Not applicable	2.1	2.1
Don't know	8.3	8.4
Missing	5.4	5.2
Highest math course taken in high school		
No math	1.0	1.0
Pre-algebra, general, or consumer math	3.3	3.3
Algebra 1	5.2	5.3
Geometry	11.5	11.5
Algebra 2	29.4	29.6
Trigonometry, precalculus, or calculus	46.2	46.0
Not applicable	0.1	‡
Nonrespondent	2.3	‡
Missing	0.9	‡
Average total number of credits earned <sup>2</sup>		
English	3.86	3.87
Math	3.39	3.41 *
Science	3.07	3.08 *
Social studies	3.61	3.63 *

! Interpret data with caution. Estimate is unstable because the standard error is between 30 and 50 percent of the estimate.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate, or the standard error is 50 percent of the estimate or larger.

\* Indicates statistically significant difference at  $p < .05$  between the two samples.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. The Two or more races category includes respondents having origins in more than one race.

<sup>2</sup> Based on courses classified by the Classification of Secondary School Courses.

NOTE: Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), First Follow-up and High School Transcript Study.

## Comparing Estimates Generated with CSSC- and SCED-Coded Coursetaking Variables

To compare estimates generated with CSSC- and SCED-coded transcript data, it was necessary to aggregate the detailed course codes into subject areas. For each of four core academic subjects—English, mathematics, science, and social studies—analysts created variables that aggregated the SCED-coded courses in each of these four subject areas and the CSSC-coded courses that had been crosswalked to those four subject areas.<sup>6</sup>

The similarity of estimates generated using the two coding systems varied by subject area. CSSC- and SCED-coded estimates of the average number of credits high school graduates earned in English varied only among 2004 graduates, both the total and 5 of 16 subgroups, and ranged from one-tenth through three-tenths of a credit (table 5). In all cases, the SCED-coded data indicated that graduates had earned more English credits than the CSSC-coded data did.<sup>7</sup>

CSSC- and SCED-coded estimates of the average number of credits earned in mathematics, science, and social studies/history did not differ for any of the cohorts (tables 6–8).

In order to provide estimates of trends in coursetaking for the four high school cohorts, ranging from the high school class of 1982 to that of 2013, the tables in appendix C present SCED-coded estimates for graduates' coursetaking and GPAs in a number of subject areas.

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<sup>6</sup> The CSSC main categories that were crosswalked to SCED subject areas are discussed on pages 10–18 of this report. Exhibits 4–7 present additional courses, outside the CSSC main categories, that were crosswalked to each of these four core academic subjects.

<sup>7</sup> Due to rounding, the estimates presented in table 5 make it appear that the CSSC-SCED difference among Hispanic graduates is 0.4 credits. The actual difference is 0.3 credits.

**Table 5. Average total English credits earned by high school graduates, by course classification system and selected student and school characteristics: 1982, 1992, 2004, and 2013**

Selected student and school characteristics	1982		1992		2004		2013
	CSSC	SCED	CSSC	SCED	CSSC	SCED	SCED
<b>Total</b>	<b>3.9</b>	<b>3.9</b>	<b>4.1</b>	<b>4.1</b>	<b>4.1</b>	<b>4.2 *</b>	<b>4.3</b>
Sex							
Male	3.9	3.8	4.1	4.1	4.1	4.2	4.3
Female	4.0	3.9	4.1	4.2	4.1	4.2 *	4.3
Race/ethnicity <sup>1</sup>							
White	3.9	3.9	4.1	4.1	4.1	4.1	4.2
Black	4.1	4.0	4.2	4.2	4.2	4.3	4.7
Hispanic	4.0	3.9	4.2	4.3	4.1	4.5 *	4.4
Asian/Pacific Islander	3.8	4.0	4.1	4.1	4.1	4.3 *	4.4
American Indian/Alaska Native	3.9	3.8	4.0	4.1	4.3	4.3	4.8
Parents' highest education <sup>2</sup>							
High school or less	3.9	3.8	4.1	4.1	4.1	4.2 *	†
Some college	4.0	3.9	4.1	4.1	4.1	4.2	†
Bachelor's degree or higher	4.0	3.9	4.2	4.2	4.1	4.2	†
Educational expectations in high school senior year <sup>3</sup>							
High school or less	3.8	3.8	4.1	4.1	3.9	4.1	4.4
Some college	3.9	3.8	4.0	4.0	4.0	4.2	4.3
Bachelor's degree	4.1	4.0	4.2	4.2	4.2	4.2	4.3
Graduate or professional degree	4.1	4.0	4.2	4.2	4.2	4.2	4.3
School sector in high school senior year							
Public	3.9	3.8	4.1	4.1	4.1	4.2 *	4.3
Private	4.3	4.2	4.3	4.3	4.3	4.3	4.3

† Not applicable.

\* Indicates statistically significant difference at  $p < .05$  between CSSC- and SCED-coded estimates.<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: CSSC = Classification of Secondary School Courses; SCED = School Courses for the Exchange of Data. Courses in the HSLS:09 High School Transcript Study were coded only using SCED. All 1982, 1992, 2004, and 2013 high school graduates took English courses. SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSLS:09), Base-year, 2013 Update, and High School Transcript Study.

**Table 6. Average total mathematics credits earned by high school graduates, by course-coding system and selected student and school characteristics: 1982, 1992, 2004, and 2013**

Selected student and school characteristics	1982		1992		2004		2013
	CSSC	SCED	CSSC	SCED	CSSC	SCED	SCED
<b>Total</b>	<b>2.7</b>	<b>2.7</b>	<b>3.3</b>	<b>3.3</b>	<b>3.6</b>	<b>3.6</b>	<b>3.9</b>
Sex							
Male	2.8	2.8	3.3	3.4	3.6	3.6	3.9
Female	2.6	2.7	3.2	3.3	3.6	3.6	3.9
Race/ethnicity <sup>1</sup>							
White	2.7	2.8	3.3	3.3	3.6	3.6	3.9
Black	2.7	2.7	3.3	3.4	3.6	3.7	4.1
Hispanic	2.4	2.5	3.2	3.3	3.4	3.5	3.8
Asian/Pacific Islander	3.3	3.3	3.5	3.5	3.9	3.8	4.1
American Indian/Alaska Native	2.2	2.4	2.8	3.0	3.1	3.3	3.9
Parents' highest education <sup>2</sup>							
High school or less	2.4	2.5	3.0	3.1	3.4	3.5	†
Some college	2.9	2.9	3.3	3.3	3.5	3.5	†
Bachelor's degree or higher	3.1	3.2	3.6	3.6	3.8	3.7	†
Educational expectations in high school senior year <sup>3</sup>							
High school or less	2.0	2.1	2.6	2.8	3.1	3.3	3.7
Some college	2.4	2.4	2.8	2.9	3.2	3.2	3.8
Bachelor's degree	3.2	3.2	3.5	3.5	3.6	3.6	3.9
Graduate or professional degree	3.4	3.4	3.6	3.7	3.9	3.8	4.0
School sector in high school senior year							
Public	2.6	2.7	3.2	3.3	3.6	3.6	3.9
Private	3.3	3.4	3.8	3.8	3.8	3.8	4.0

† Not applicable.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Almost all 1982, 1992, 2004, and 2013 high school graduates (99.9 to 100 percent) took mathematics courses. Estimates of mathematics credits earned are based on those who took mathematics courses. CSSC = Classification of Secondary School Courses; SCED = School Courses for the Exchange of Data. Courses in the HSL:09 High School Transcript Study were coded only using SCED. No statistically significant differences were found between CSSC- and SCED-coded estimates.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.



**Table 7. Average total science credits earned by high school graduates, by course-coding system and selected student and school characteristics: 1982, 1992, 2004, and 2013**

Selected student and school characteristics	1982		1992		2004		2013
	CSSC	SCED	CSSC	SCED	CSSC	SCED	SCED
<b>Total</b>	<b>2.3</b>	<b>2.3</b>	<b>3.0</b>	<b>3.0</b>	<b>3.3</b>	<b>3.3</b>	<b>3.6</b>
Sex							
Male	2.4	2.4	3.0	3.0	3.3	3.3	3.5
Female	2.2	2.2	3.0	3.0	3.4	3.4	3.6
Race/ethnicity <sup>1</sup>							
White	2.4	2.4	3.0	3.0	3.4	3.4	3.6
Black	2.1	2.1	2.9	2.9	3.3	3.3	3.6
Hispanic	1.9	1.9	2.7	2.7	3.0	3.0	3.4
Asian/Pacific Islander	2.7	2.7	3.3	3.3	3.7	3.7	4.1
American Indian/Alaska Native	2.1	2.2	2.6	2.6	3.1	3.1	3.3
Parents' highest education <sup>2</sup>							
High school or less	2.1	2.1	2.7	2.7	3.1	3.1	†
Some college	2.5	2.5	3.0	3.0	3.2	3.3	†
Bachelor's degree or higher	2.7	2.7	3.4	3.4	3.5	3.5	†
Educational expectations in high school senior year <sup>3</sup>							
High school or less	1.7	1.7	2.4	2.4	2.7	2.8	3.1
Some college	2.0	2.0	2.5	2.5	2.9	2.9	3.3
Bachelor's degree	2.6	2.6	3.1	3.1	3.4	3.4	3.6
Graduate or professional degree	3.0	3.0	3.5	3.5	3.7	3.7	3.9
School sector in high school senior year							
Public	2.2	2.2	3.0	3.0	3.3	3.3	3.6
Private	2.6	2.6	3.2	3.2	3.6	3.6	3.8

† Not applicable.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Almost all 1982, 1992, 2004, and 2013 high school graduates (98 to 100 percent) took science courses. Estimates of science credits earned are based on those who took science courses. CSSC = Classification of Secondary School Courses. SCED = School Courses for the Exchange of Data. Courses in the HSLs:09 High School Transcript Study were coded only using SCED. No statistically significant differences were found between CSSC- and SCED-coded estimates.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSLs:09), Base-year, 2013 Update, and High School Transcript Study.

**Table 8. Average total social studies/history credits earned by high school graduates, by course-coding system and selected student and school characteristics: 1982, 1992, 2004, and 2013**

Selected student and school characteristics	1982		1992		2004		2013
	CSSC	SCED	CSSC	SCED	CSSC	SCED	SCED
<b>Total</b>	<b>3.2</b>	<b>3.2</b>	<b>3.5</b>	<b>3.5</b>	<b>3.8</b>	<b>3.8</b>	<b>3.9</b>
Sex							
Male	3.2	3.2	3.5	3.5	3.8	3.8	3.9
Female	3.2	3.2	3.6	3.5	3.9	3.9	4.0
Race/ethnicity <sup>1</sup>							
White	3.2	3.2	3.5	3.5	3.9	3.9	3.9
Black	3.2	3.1	3.6	3.6	3.7	3.7	3.9
Hispanic	3.1	3.1	3.3	3.3	3.7	3.7	3.8
Asian/Pacific Islander	3.1	3.1	3.6	3.5	3.9	3.8	4.0
American Indian/Alaska Native	3.2	3.2	3.7	3.6	3.8	3.9	3.7
Parents' highest education <sup>2</sup>							
High school or less	3.2	3.2	3.4	3.4	3.7	3.7	3.8
Some college	3.3	3.2	3.5	3.5	3.8	3.8	3.9
Bachelor's degree or higher	3.3	3.3	3.7	3.7	3.9	3.9	4.0
Educational expectations in high school senior year <sup>3</sup>							
High school or less	3.1	3.1	3.3	3.3	3.4	3.5	3.7
Some college	3.2	3.2	3.4	3.4	3.6	3.6	3.7
Bachelor's degree	3.3	3.3	3.6	3.6	3.8	3.8	3.9
Graduate or professional degree	3.3	3.3	3.6	3.6	4.0	4.0	4.1
School sector in high school senior year							
Public	3.2	3.1	3.5	3.5	3.8	3.8	3.9
Private	3.7	3.7	3.8	3.8	4.0	4.0	4.0

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.

<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.

<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Almost all 1982, 1992, 2004, and 2013 high school graduates (99.9 to 100 percent) took social studies/history courses. Estimates of social studies/history credits earned are based on those who took social studies/history courses. CSSC = Classification of Secondary School Courses. SCED = School Courses for the Exchange of Data. Courses in the HSLS:09 High School Transcript Study were coded only using SCED. No statistically significant differences were found between CSSC- and SCED-coded estimates.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSLS:09), Base-year, 2013 Update, and High School Transcript Study.

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## Appendix A: CSSC/SCED Crosswalk

**Table A-1. CSSC/SCED Crosswalk**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
23.0106	English 1, Below Grade Level; English 9, Basic; Communication Skills, Non College	English/Language Arts I (9th grade)	01001	B	1
23.0107	English 1; English 9, Average	English/Language Arts I (9th grade)	01001	G	1
23.0108	English 1, Honors; English 9, Honors	English/Language Arts I (9th grade)	01001	H	1
23.0161	English Skills 1 for Visually Impaired	English/Language Arts I (9th grade)	01001	G	1
23.0165	Pre-IB English 1 (grade 9)	English/Language Arts I (9th grade)	01001	G	1
23.0109	English 2, Below Grade Level; English 10, Basic	English/Language Arts II (10th grade)	01002	B	1
23.0110	English 2; English 10, Average	English/Language Arts II (10th grade)	01002	G	1
23.0111	English 2, Honors; English 10, Honors	English/Language Arts II (10th grade)	01002	H	1
23.0162	English Skills 2 for Visually Impaired	English/Language Arts II (10th grade)	01002	G	2
23.0166	Pre-IB English 2 (grade 10)	English/Language Arts II (10th grade)	01002	G	1
23.0112	English 3, Below Grade Level; English 11, Basic	English/Language Arts III (11th grade)	01003	B	1
23.0113	English 3; English 11, Average	English/Language Arts III (11th grade)	01003	G	1
23.0114	English 3, Honors; English 11, Honors	English/Language Arts III (11th grade)	01003	H	1
23.0163	English Skills 3 for Visually Impaired	English/Language Arts III (11th grade)	01003	G	3
23.0167	Pre-IB English 3 (grade 11)	English/Language Arts III (11th grade)	01003	G	1
23.0115	English 4, Below Grade Level; English 12, Basic	English/Language Arts IV (12th grade)	01004	B	1
23.0116	English 4; English 12, Average	English/Language Arts IV (12th grade)	01004	G	1
23.0117	English 4, Honors; English 12, Honors	English/Language Arts IV (12th grade)	01004	H	1
23.0164	English Skills 4 for Visually Impaired	English/Language Arts IV (12th grade)	01004	G	4
23.0170	AP English Language and Composition	AP English Language and Composition	01005	E	1
23.0171	AP English Literature and Composition	AP English Literature and Composition	01006	E	1
23.0168	IB English 4 (grade 11 or 12)	IB Language A (English)	01007	E	1
23.0169	IB English 5 (grade 12)	IB Language A (English)	01007	E	2
16.0121	English as a Second Language 1; TESOL, Beginning	English as a Second Language	01008	G	1
16.0122	English as a Second Language 2; TESOL, Intermediate	English as a Second Language	01008	G	2
16.0123	English as a Second Language 3; TESOL,	English as a Second Language	01008	G	3
16.0124	English as a Second Language, Skills Lab	English as a Second Language	01008	B	1
16.0125	Transitional English	English as a Second Language	01008	B	1
52.0103	English/Language Arts EMH	Language Arts Laboratory	01009	B	1
52.0203	English/Language Arts EH	Language Arts Laboratory	01009	B	1
52.0301	English/Language Arts Deaf	Language Arts Laboratory	01009	B	1
54.2011	Functional Language Arts 1	Language Arts Laboratory	01009	B	1
54.2019	Functional Language Arts 1, not for credit	Language Arts Laboratory	01009	B	1
54.2021	Functional Language Arts 2	Language Arts Laboratory	01009	B	2
54.2029	Functional Language Arts 2, not for credit	Language Arts Laboratory	01009	B	2
54.2031	Functional Language Arts 3	Language Arts Laboratory	01009	B	3
54.2039	Functional Language Arts 3, not for credit	Language Arts Laboratory	01009	B	3
54.2041	Functional Language Arts 4	Language Arts Laboratory	01009	B	4
54.2049	Functional Language Arts 4, not for credit	Language Arts Laboratory	01009	B	4
56.2300	Special Education Language Arts	Language Arts Laboratory	01009	B	1
56.2322	Resource Room English 2 (Special Education)	Language Arts Laboratory	01009	B	2

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
56.2329	Resource Writing, not for credit	Language Arts Laboratory	01009	B	1
23.0101	English 7 - Middle School Level	Language Arts (grade 7)	01035	G	1
23.0102	English 7, Honors; English 7, Above Grade Level - Middle School Level	Language Arts (grade 7)	01035	H	1
23.0103	English 8, Below Grade Level - Middle School Level	Language Arts (grade 8)	01036	B	1
23.0104	English 8; English 8, Average - Middle School Level	Language Arts (grade 8)	01036	G	1
23.0105	English 8, Honors; English 8, Above Grade Level - Middle School Level	Language Arts (grade 8)	01036	H	1
23.0152	English, Real Life Problem Solving	Literature	01053	G	1
23.0700	Literature, American, Other	American Literature	01054	G	1
23.0711	American Literature; Selected American Authors; American Experience; Portrait of an American; American Writers	American Literature	01054	G	1
23.0181	Integrated English/History 1 (English)	American Literature/History	01055	G	1
23.0182	Integrated English/History 2 (English)	American Literature/History	01055	G	2
23.0183	Integrated English/History 3 (English)	American Literature/History	01055	G	3
45.0881	Integrated English/History 1 (History)	American Literature/History	01055	G	1
45.0882	Integrated English/History 2 (History)	American Literature/History	01055	G	2
45.0883	Integrated English/History 3 (History)	American Literature/History	01055	G	3
23.0800	Literature, English, Other	British Literature	01056	G	1
23.0811	British Literature Survey; Major British Writers; British Literature, Conventions and Experiments; Background of Modern British Literature	British Literature	01056	G	1
23.0821	Shakespeare; Ages of Man; Political Intrigue and Murder	British Literature	01056	G	1
23.0831	Modern British Writer	British Literature	01056	G	1
23.0841	Victorian Literature	British Literature	01056	G	1
23.0851	Satire, Modern British	British Literature	01056	G	1
23.0861	Arthurian Legend; Once and Future King	British Literature	01056	G	1
23.0871	Medieval Literature	British Literature	01056	G	1
23.0118	World Literature; Modern Classical Literature	World Literature	01058	G	1
23.0311	Comparative Literature; Comparisons in Literature	World Literature	01058	G	1
23.0125	Bible as Literature; Literature of the Bible	Biblical Literature	01059	G	1
23.0151	Seminar on an Author	Literature of an Author	01060	G	1
23.0127	Drama, Introduction	Literature of a Genre	01061	G	1
23.0128	World Drama	Literature of a Genre	01061	G	1
23.0129	Plays, Modern Survey	Literature of a Genre	01061	G	1
23.0130	Novels	Literature of a Genre	01061	G	1
23.0131	Short Story; Short Narrative; Short Fiction	Literature of a Genre	01061	G	1
23.0132	Mysteries	Literature of a Genre	01061	G	1
23.0133	Poetry	Literature of a Genre	01061	G	1
23.0134	Rock Poetry	Literature of a Genre	01061	G	1
23.0135	Humor; Let's Laugh; American Humor	Literature of a Genre	01061	G	1
23.0136	Biography; Autobiography; Famous Personalities	Literature of a Genre	01061	G	1
23.0137	Non Fiction	Literature of a Genre	01061	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
23.0138	Science Fiction; Literature of the Mysterious; Fiction and Fantasy	Literature of a Genre	01061	G	1
23.0155	Children's Literature & Fantasy	Literature of a Genre	01061	G	1
23.0741	Folklore, American	Literature of a Genre	01061	G	1
23.0119	Renaissance Literature; Man in a New World	Literature of a Period	01062	G	1
23.0120	Romanticism; Man and Nature	Literature of a Period	01062	G	1
23.0121	Realism	Literature of a Period	01062	G	1
23.0122	Literature, Contemporary; Contemporary Fiction; 20th Century Literature; Big Books of the 20th Century	Literature of a Period	01062	G	1
23.0200	Classics, Other	Literature of a Period	01062	G	1
23.0211	Mythological Literature, Greek and Roman; Classical Mythology	Literature of a Period	01062	G	1
23.0761	State Writers; Regional Writers	Literature of a Place	01063	G	1
23.0771	Western Literature; Frontier Literature	Literature of a Place	01063	G	1
23.0123	Irish Literature	Literature of a People	01064	G	1
23.0124	Russian Literature	Literature of a People	01064	G	1
23.0141	Ethnic Literature; Minority Literature	Literature of a People	01064	G	1
23.0142	Women in Literature	Literature of a People	01064	G	1
23.0150	Nobel Prize Authors	Literature of a People	01064	G	1
23.0321	Latin American Authors/Literature	Literature of a People	01064	G	1
23.0721	Black Literature; Literature of Black America; Afro American Literature	Literature of a People	01064	G	1
23.0751	Indian Literature; American Indian Literature	Literature of a People	01064	G	1
23.0781	Mexican American Literature	Literature of a People	01064	G	1
30.0721	Women's Studies in Literature	Literature of a People	01064	G	1
23.0126	Mythology and Fable; Mythology and Folklore; Heroes, Gods and Monsters	Literature of a Theme	01065	G	1
23.0139	Themes in Literature; War and Peace; Modern Journalistic Literature	Literature of a Theme	01065	G	1
23.0140	Literature of Human Values	Literature of a Theme	01065	G	1
23.0143	Sports through Literature	Literature of a Theme	01065	G	1
23.0144	Occult Literature; Supernatural Literature	Literature of a Theme	01065	G	1
23.0145	Protest Literature	Literature of a Theme	01065	G	1
23.0146	Youth and Literature; Adolescent Fiction; Books and the Teenage Reader	Literature of a Theme	01065	G	1
23.0147	Heroes	Literature of a Theme	01065	G	1
23.0148	Utopias	Literature of a Theme	01065	G	1
23.0149	Death	Literature of a Theme	01065	G	1
23.0731	American Dream in Literature; American Heroes; American Dilemma; American Cultural Patterns; American Philosophy In Literature	Literature of a Theme	01065	G	1
38.0211	Religion and Literature	Literature of a Theme	01065	G	1
23.1215	Speed Reading	Strategic Reading	01066	G	1
23.1216	Advanced Reading and Study Skills; Reading and Conference; Literature, Individualized; Best Sellers; Reading for Pleasure	Strategic Reading	01066	G	1
32.0111	Speed Reading (Changed to 23.1215)	Strategic Reading	01066	G	1
23.1217	Reading Improvement	Assisted Reading	01067	G	1

See notes at end of table.



**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
23.1211	Reading Development 1; Reading Improvement; Remedial Reading; Reading Skills; Chapter 1 Reading; Reading Fundamentals; Corrective Reading	Corrective Reading	01068	G	1
23.1212	Reading Development 2	Corrective Reading	01068	G	2
23.1213	Reading Development 3	Corrective Reading	01068	G	3
23.1214	Reading Development 4	Corrective Reading	01068	G	4
32.0109	Reading Development 1 (Changed to 23.1211)	Corrective Reading	01068	G	1
32.0110	Reading Development 2 (Changed to 23.1212)	Corrective Reading	01068	G	2
54.2101	Functional Reading	Corrective Reading	01068	B	1
54.2109	Functional Reading, not for credit	Corrective Reading	01068	B	1
56.2310	Special Education Reading	Corrective Reading	01068	B	1
56.2311	Resource Reading	Corrective Reading	01068	B	1
56.2319	Resource Reading, not taken for credit	Corrective Reading	01068	B	1
23.0153	Reading, Independent Study	Literature—Independent Study	01097	G	1
23.0300	Comparative Literature, Other	Literature—Other	01099	G	1
23.0403	Writing About Literature	Literature—Other	01099	G	1
23.0401	Composition, Expository; Writing Practice; Contemporary Composition; Expository Writing	Composition	01103	G	1
23.0500	Creative Writing, Other	Creative Writing	01104	G	1
23.0511	Creative Writing 10; Creative Writing 1	Creative Writing	01104	G	1
23.0512	Creative Writing 11; Creative Writing 2, Workshop	Creative Writing	01104	G	2
23.0513	Creative Writing 12	Creative Writing	01104	G	3
23.0154	Research Technique; Writing and Research; Research Process; College Writing; Research Paper; Research and Writing the Term Paper	Research/Technical Writing	01105	G	1
23.1100	Technical and Business Writing, Other	Research/Technical Writing	01105	G	1
23.1111	Technical English	Research/Technical Writing	01105	G	1
56.2320	Special Education Writing - Middle School Level	Writing	01139	B	1
23.0402	Writing Laboratory; Writing Skills Workshop; Composition, Advanced Computer Assisted Writing Instruction	Composition—Independent Study	01147	G	1
23.0521	Creative Writing, Independent Study	Composition—Independent Study	01147	G	1
23.0400	Composition, Other	Composition—Other	01149	G	1
23.0404	Vocabulary; Fun With Words; College Vocabulary Skill Building; Word Power	Composition—Other	01149	G	1
23.0405	Spelling	Composition—Other	01149	G	1
23.0531	Journal Writing	Composition—Other	01149	G	1
23.1011	Public Speaking; Communications, Basic; Speech Arts; Oral Composition; Oral Communications; Forensics	Public Speaking	01151	G	1
23.1021	Speech 1; Oral Interpretation; Speech, General; They Used to Call It Rhetoric	Forensic Speech—Inclusive	01152	G	1
23.1022	Speech 2; Speech Tournament; Discussion and Debate; Debate and Argumentation (Changed to 23.1024 and 23.1025)	Forensic Speech—Inclusive	01152	G	2

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
23.1023	Speech 3 (Changed to 23.1024)	Forensic Speech—Inclusive	01152	G	2
23.1024	Advanced Speech	Forensic Speech—Inclusive	01152	E	2
23.1025	Debate	Forensic Speech—Debate	01153	G	1
23.1031	Debate Practicum Contract	Forensic Speech—Debate	01153	G	1
23.0414	Interpersonal Communication	Communications	01155	G	1
23.1311	Functional English 1; Correlated Language Arts 1	Applied English and Communications	01156	G	1
23.1312	Functional English 2; Correlated Language Arts 2	Applied English and Communications	01156	G	2
23.1313	Functional English 3; Correlated Language Arts 3	Applied English and Communications	01156	G	3
23.1314	Functional English 4; Correlated Language Arts 4; Minimum Standards Review; Personal and Career Communications	Applied English and Communications	01156	G	4
32.0118	English, Functional (Changed to 23.1311-23.1314)	Applied English and Communications	01156	B	1
54.2051	Functional Vocational English	Applied English and Communications	01156	B	1
54.2059	Functional Vocational English, not for credit	Applied English and Communications	01156	B	1
54.2201	Functional Oral Communication	Applied English and Communications	01156	B	1
54.2209	Functional Oral Communication, not for credit	Applied English and Communications	01156	B	1
54.2301	Functional Writing	Applied English and Communications	01156	B	1
54.2309	Functional Writing, not for credit	Applied English and Communications	01156	B	1
23.0415	Word Study - Remedial	Speech—Other	01199	G	1
23.1000	Speech, Debate, and Forensics, Other	Speech—Other	01199	G	1
32.0115	Word Study, Remedial (Changed to 23.0415)	Speech—Other	01199	G	1
23.0406	Grammar 7; Language Structure 7 - Middle School Level	English Morphology and Grammar	01201	G	1
23.0407	Grammar 8; Language Structure 8 - Middle School Level	English Morphology and Grammar	01201	G	1
23.0408	Grammar 9; Language Structure 9	English Morphology and Grammar	01201	G	1
23.0409	Grammar 10; Language Structure 10; Grammar Review 10, College Preparation	English Morphology and Grammar	01201	G	2
23.0410	Grammar 11; Language Structure 11; Grammar Review 11, College Preparation	English Morphology and Grammar	01201	G	3
23.0411	Grammar 12; Language Structure 12; Grammar Review 12, College Preparation; English SAT Preparation	English Morphology and Grammar	01201	G	4
23.0412	Etymology; Wordsearch; Word Clues	History of the English Language	01202	G	1
23.0611	Linguistics; Language and Thought; Semantics and History of Language	History of the English Language	01202	G	1
23.1401	English, Independent Study	English Language and Literature—Independent Study	01997	G	1
23.0100	English, Other General	English Language and Literature—Other	01999	G	1
23.0156	Vocational English	English Language and Literature—Other	01999	G	1
23.0413	Handwriting; Penmanship	English Language and Literature—Other	01999	G	1
23.0600	Linguistics (includes Phonetics, Semantics, and Philology), Other	English Language and Literature—Other	01999	G	1
23.0900	Rhetoric, Other	English Language and Literature—Other	01999	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
23.1315	Transitional English	English Language and Literature—Other	01999	G	1
23.9900	Letters/English, Other	English Language and Literature—Other	01999	G	1
32.0113	Language, Developmental (Changed to 16.0125 for non-English speakers and 23.1311-23.1314 for English speakers)	English Language and Literature—Other	01999	G	1
27.0105	Mathematics, Basic (Changed to 27.0601-27.0604)	General Math	02002	B	1
27.0106	Mathematics 1, General; Mathematics 1, Applied; Computational Skills 1	General Math	02002	G	1
27.0107	Mathematics 2, General; Mathematics 2, Applied; Computational Skills 2	General Math	02002	G	2
27.0601	Basic Math 1; Math Fundamentals; Developmental Math; Arithmetic Review; Mathematics, Remedial; Mathematics, Essentials; Mathematics Lab; Competency Mathematics; Mathematics, Basic	General Math	02002	B	1
27.0602	Basic Math 2; Remedial Math 2; Math Fundamentals 2; Developmental Math 2; Remedial Math 2; Remedial Math 10; Mathematics, Basic 2	General Math	02002	B	2
27.0603	Basic Math 3; Remedial Math 3; Math Fundamentals 3; Developmental Math 3; Remedial Math 3; Remedial Math 11 or 12; Mathematics, Basic 3	General Math	02002	B	3
27.0604	Basic Math 4; Mathematics, Basic 4; Remedial Math 4	General Math	02002	B	4
52.0102	Mathematics EMH	Particular Topics in Foundation Math	02003	G	1
52.0204	Mathematics EH	Particular Topics in Foundation Math	02003	G	1
52.0302	Mathematics Deaf	Particular Topics in Foundation Math	02003	G	1
54.1001	General Math Skills	Particular Topics in Foundation Math	02003	G	1
54.1009	Functional Math Skills, not for credit	Particular Topics in Foundation Math	02003	G	1
54.1201	Functional Vocational Math	Particular Topics in Foundation Math	02003	G	1
54.1209	Functional Vocational Math, not for credit	Particular Topics in Foundation Math	02003	G	1
27.0101	Mathematics 7 - Middle School Level	Mathematics (grade 7)	02037	G	1
27.0102	Mathematics 7, Accelerated - Middle School Level	Mathematics (grade 7)	02037	E	1
27.0103	Mathematics 8 - Middle School Level	Mathematics (grade 8)	02038	G	1
27.0104	Mathematics 8, Accelerated - Middle School Level	Mathematics (grade 8)	02038	E	1
56.2700	Special Education Math	Foundation Math—Other	02049	B	1
56.2701	Resource General Math	Foundation Math—Other	02049	B	1
56.2709	Resource General Math, not for credit	Foundation Math—Other	02049	B	1
56.2711	Resource Vocational Math	Foundation Math—Other	02049	B	1
56.2719	Resource Vocational Math, not for credit	Foundation Math—Other	02049	B	1
27.0401	Pre-Algebra; Algebra Skills; Algebra, Principles; Algebra, Introduction; Algebra, Basic; Algebra, Practical	Pre-Algebra	02051	G	1
27.0404	Algebra 1; Algebra, Elementary	Algebra I	02052	G	1
27.0402	Algebra 1, Part 1	Algebra I—Part 1	02053	G	1
27.0403	Algebra 1, Part 2	Algebra I—Part 2	02054	G	1
27.0439	Algebra Review	Transition Algebra	02055	G	1
27.0405	Algebra 2; Algebra, Intermediate	Algebra II	02056	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
27.0410	Algebra 3; Algebra, Advanced; Mathematics, Advanced; Algebra, College; Algebraic Systems	Algebra III	02057	G	1
27.0413	Trigonometry and Solid Geometry	Integrated Math—multi-year equivalent	02061	G	1
27.0415	Algebra and Analytic Geometry	Integrated Math—multi-year equivalent	02061	G	1
27.0418	Calculus and Analytic Geometry	Integrated Math—multi-year equivalent	02061	G	1
27.0421	Mathematics 1, Unified	Integrated Math—multi-year equivalent	02061	G	1
27.0422	Mathematics 2, Unified	Integrated Math—multi-year equivalent	02061	G	2
27.0423	Mathematics 3, Unified	Integrated Math—multi-year equivalent	02061	G	3
27.0427	Unified Math 1, Part 1	Integrated Math—multi-year equivalent	02061	G	1
27.0428	Unified Math 1, Part 2	Integrated Math—multi-year equivalent	02061	G	2
27.0409	Geometry, Informal; Geometry, Physical; Geometry, Intuitive; Geometry, Practical; Geometric Design; Geometry, Occupational	Informal Geometry	02071	G	1
27.0408	Geometry	Geometry	02072	G	1
27.0425	Geometry, Part 1	Geometry	02072	G	1
27.0426	Geometry, Part 2	Geometry	02072	G	2
27.0429	Pre-IB Geometry	Geometry	02072	G	1
27.0412	Analytic Geometry; Geometry, Advanced	Analytic Geometry	02073	G	1
27.0438	Algebra and Geometry	Principles of Algebra and Geometry	02074	G	1
27.0406	Geometry, Plane	Particular Topics in Geometry	02075	G	1
27.0407	Geometry, Solid	Particular Topics in Geometry	02075	G	1
27.0436	Discrete Math	Discrete Mathematics	02102	G	1
27.0411	Trigonometry	Trigonometry	02103	G	1
27.0414	Algebra and Trigonometry	Trigonometry/Algebra	02106	G	1
27.0430	Pre-IB Algebra 2/Trigonometry	Trigonometry/Algebra	02106	G	1
27.0416	Analysis, Introductory; Mathematical Analysis; Pre-Calculus; Elementary Functions; Limits and Functions; Analysis, Elementary	Pre-Calculus	02110	G	1
27.0417	Linear Algebra; Matrix Algebra; Algebra, Honors	Linear Algebra	02111	G	1
27.0419	Calculus	Calculus	02121	G	1
27.0420	AP Calculus AB; Advanced Placement Calculus AB; Calculus, Advanced Placement	AP Calculus AB	02124	E	1
27.0435	AP Calculus BC	AP Calculus BC	02125	E	1
27.0443	Advanced Functions and Modeling	Particular Topics in Calculus	02126	G	1
27.0432	IB Math Studies 1; IB Mathematical Studies Standard	IB Mathematical Studies	02131	E	1
27.0433	IB Math Studies 2; IB Mathematical Studies Higher	IB Mathematical Studies	02131	E	1
27.0441	IB Mathematics Higher	IB Mathematics	02132	E	1
27.0434	IB Math Studies/Calculus; IB Calculus	IB Further Mathematics—SL	02134	E	1
27.0440	IB Further Mathematics Standard	IB Further Mathematics—SL	02134	E	1
27.0437	Finite Math	Particular Topics in Analytic Mathematics	02141	G	1
27.0300	Applied Mathematics, Other	General Applied Math	02151	G	1
01.0151	Agricultural Mathematics	Occupationally Applied Math	02152	G	1
17.0651	Nurse's Mathematics	Occupationally Applied Math	02152	G	1
27.0110	Mathematics, Vocational; Shop Mathematics; Mathematics for Trade and Mathematics for Employment	Occupationally Applied Math	02152	G	1
32.0108	Mathematics, Vocational (Changed to 27.0110)	Occupationally Applied Math	02152	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
27.0108	Science Mathematics	Technical Math	02153	G	1
27.0111	Technical Mathematics	Technical Math	02153	G	1
07.0171	Business Mathematics 1; Business Arithmetic; Career Computation 1	Business Math	02154	G	1
07.0172	Business Mathematics 2; Business Arithmetic 2; Career Computation 2	Business Math	02154	G	2
07.0221	Financial Mathematics	Business Math	02154	G	1
11.0121	Computer Mathematics 1; Computer Problem Solving; Mathematics and Computing	Computer Math with Algebra	02156	G	1
11.0122	Computer Mathematics 2	Computer Math with Algebra	02156	G	2
27.0114	Consumer Mathematics; Mathematics Survival Skills	Consumer Math	02157	G	1
54.1101	Functional Consumer Math	Consumer Math	02157	B	1
54.1109	Functional Consumer Math, not for credit	Consumer Math	02157	B	1
56.2721	Resource Consumer Math	Consumer Math	02157	B	1
56.2729	Resource Consumer Math, not for credit	Consumer Math	02157	B	1
27.0511	Statistics	Probability and Statistics	02201	G	1
27.0521	Probability	Probability and Statistics	02201	G	1
27.0531	Probability and Statistics	Probability and Statistics	02201	G	1
27.0532	AP Statistics	AP Statistics	02203	E	1
27.0442	Functions, Statistics, and Trigonometry	Probability and Statistics—Other	02209	G	1
27.0500	Statistics, Other	Probability and Statistics—Other	02209	G	1
27.0109	Mathematics in the Arts; Mathematics as a Liberal Art; History of Mathematics	History of Math	02991	G	1
27.0112	Mathematics Review; SAT Mathematics; Senior Math	Mathematics—Test Preparation	02993	G	1
27.0113	Mathematics Tutoring	Mathematics—Aide	02995	G	1
27.0424	Mathematics, Independent Study; Mathematics Strategies; Mathematics Topics; Mathematics, Competitive; Mathematics, Enrichment; Mathematics Seminar	Mathematics—Independent Study	02997	G	1
27.0100	Mathematics, Other General	Mathematics—Other	02999	G	1
27.0200	Actuarial Sciences, Other	Mathematics—Other	02999	G	1
27.0400	Pure Mathematics, Other	Mathematics—Other	02999	G	1
27.0431	IB Math Methods 1	Mathematics—Other	02999	G	1
27.9900	Mathematics, Other	Mathematics—Other	02999	G	1
40.0611	Earth Science; Earth Science 9; Earth Science, General	Earth Science	03001	G	1
40.0621	Earth Science, College Preparatory	Earth Science	03001	G	1
40.0631	Geology	Geology	03002	G	1
30.0621	Environmental Science; Environmental Issues; Human Communities; People Technology and the Environment	Environmental Science	03003	G	1
40.0200	Astronomy, Other	Astronomy	03004	G	1
40.0211	Astronomy	Astronomy	03004	G	1
26.0621	Marine Biology; Marine Studies; Biology, Aquatic	Marine Science	03005	G	1
26.0622	Marine Biology, Advanced; Marine Biology 2	Marine Science	03005	G	2
40.0711	Oceanography	Marine Science	03005	G	1
40.0400	Atmospheric Sciences and Meteorology, Other	Meteorology	03006	G	1
40.0411	Meteorology	Meteorology	03006	G	1

See notes at end of table.

**Table A-1. CCCC/SCED Crosswalk—Continued**

CSSC Code	CSSC Course Title(s)	SCED Course Title	SCED Code	Rigor	Sequence
45.0707	Physical Geography	Physical Geography	03007	G	1
40.0911	Rocketry and Space Science; Space Science	Earth and Space Science	03008	G	1
30.0631	Energy and Environment	Energy and the Environment	03012	G	1
40.0600	Geological Sciences, Other	Earth Science—other	03049	G	1
40.0632	Geology - Field Studies	Earth Science—Other	03049	G	1
40.0641	Mineralogy	Earth Science—Other	03049	G	1
26.0111	Science 7; Life Sciences 7 - Middle School Level	Biology	03051	G	1
26.0121	Biology, Basic 1; Biology, Essentials; Biology, Patterns; Life Science; Natural Science; Biology, Functional	Biology	03051	B	1
26.0131	Biology, General 1; Biology; Biology, Regents; Biology, Introductory	Biology	03051	G	1
26.0141	Biology, Honors 1	Biology	03051	H	1
26.0143	Pre-IB Biology	Biology	03051	G	1
26.0122	Biology, Basic 2	Biology—Advanced Studies	03052	B	2
26.0132	Biology, General 2	Biology—Advanced Studies	03052	G	2
26.0142	Biology, Advanced; College Biology; Honors Biology 2	Biology—Advanced Studies	03052	H	2
26.0751	Physiology, Human; Anatomy and Physiology; Human Biology	Anatomy and Physiology	03053	G	1
26.0631	Anatomy	Anatomy	03054	G	1
26.0752	Physiology, Advanced	Physiology	03055	G	1
26.0146	AP Biology	AP Biology	03056	E	1
26.0144	IB Biology 2	IB Biology	03057	E	2
26.0145	IB Biology 3	IB Biology	03057	E	3
26.0300	Botany, Other	Botany	03058	G	1
26.0311	Botany; Plants and People; Trees and Shrubs, Local	Botany	03058	G	1
26.0161	Genetics	Genetics	03059	G	1
26.0500	Microbiology, Other	Microbiology	03060	G	1
26.0511	Microbiology; Bacteriology	Microbiology	03060	G	1
26.0700	Zoology, Other	Zoology	03061	G	1
26.0711	Zoology	Zoology	03061	G	1
26.0721	Zoology, Vertebrate	Zoology	03061	G	1
26.0731	Zoology, Invertebrate	Zoology	03061	G	1
26.0171	Biopsychology	Particular Topics in Biology	03063	G	1
26.0200	Biochemistry and Biophysics, Other	Particular Topics in Biology	03063	G	1
26.0211	Biochemistry	Particular Topics in Biology	03063	G	1
26.0400	Cell and Molecular Biology, Other	Particular Topics in Biology	03063	G	1
26.0411	Cell Biology	Particular Topics in Biology	03063	G	1
26.0600	Miscellaneous Specialized Areas, Life Sciences, Other	Particular Topics in Biology	03063	G	1
26.0611	Ecology	Particular Topics in Biology	03063	G	1
26.0741	Animal Behavior	Particular Topics in Biology	03063	G	1
26.0761	Pathology; Health Biology	Particular Topics in Biology	03063	G	1
26.0771	Comparative Embryology	Particular Topics in Biology	03063	G	1
26.0781	Entomology	Particular Topics in Biology	03063	G	1
26.0791	Ornithology	Particular Topics in Biology	03063	G	1
26.0151	Field Biology; Biology, Regional	Regional Biology	03064	G	1
26.0181	Biology Seminar; Biology, Independent Study	Biology—Independent Study	03097	G	1
26.0100	Biology, Other General	Biology—Other	03099	G	1
26.9900	Life Sciences, Other	Biology—Other	03099	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
40.0511	Chemistry, Introductory; Chemistry, General; Chemistry, Fundamentals; Chemistry Concepts; Chemistry, Interdisciplinary	Chemistry	03101	G	1
40.0521	Chemistry 1; Chemistry, College Preparatory; Chemistry, Regents; Chemistry Study	Chemistry	03101	G	1
40.0523	Pre-IB Chemistry 1	Chemistry	03101	G	1
40.0522	Chemistry 2; Chemistry, Advanced	Chemistry—Advanced Studies	03102	G	2
40.0531	Organic Chemistry; Organic Biochemistry	Organic Chemistry	03103	G	1
40.0541	Physical Chemistry	Physical Chemistry	03104	G	1
40.0512	Chemistry in the Community	Conceptual Chemistry	03105	G	1
40.0526	AP Chemistry	AP Chemistry	03106	E	1
40.0524	IB Chemistry 2	IB Chemistry	03107	E	1
40.0525	IB Chemistry 3	IB Chemistry	03107	E	2
40.0551	Consumer Chemistry; Chemistry, Applied	Particular Topics in Chemistry	03108	G	1
40.0561	Chemistry, Independent Study	Chemistry—Independent Study	03147	G	1
40.0500	Chemistry, Other	Chemistry—Other	03149	G	1
40.0811	Physics, General; Physics Concepts; Physics, Applied	Physics	03151	G	1
40.0821	Physics 1; Physics, Regents; Physics, College	Physics	03151	G	1
40.0822	Physics 2; Physics, Advanced; Physics, Honors	Physics	03152	H	2
40.0831	Physics 2 without Calculus	Physics—Advanced Studies	03152	G	2
40.0812	Principles of Technology 1	Principles of Technology	03153	G	1
40.0813	Principles of Technology 2	Principles of Technology	03153	G	2
40.0841	Electricity and Electronics Science; Electronics Science	Principles of Technology	03153	G	1
40.0824	AP Physics B	AP Physics B	03155	E	1
40.0823	IB Physics	IB Physics	03157	E	1
40.0121	Physical Science; Science 9; Chemistry and Physics	Physical Science	03159	G	1
40.0141	Physical Science, Applied	Physical Science	03159	G	1
40.0300	Astrophysics, Other	Particular Topics in Physics	03162	G	1
40.0851	Acoustics; Physics of Sound	Particular Topics in Physics	03162	G	1
41.0200	Nuclear Technologies, Other	Particular Topics in Physics	03162	G	1
41.0211	Radioactivity	Particular Topics in Physics	03162	G	1
40.0826	AP Physics C: Electricity/Magnetism	AP Physics C: Electricity and Magnetism	03163	E	1
40.0825	AP Physics C: Mechanics	AP Physics C: Mechanics	03164	E	1
40.0800	Physics, Other	Physics—Other	03199	G	1
30.0111	Science, Unified; Science, Basic; Science, General; Science Ideas; Science Workshop; Science, Applied; Physical and Life Science	Unified Science	03202	G	1
30.0113	Science, Unified, Advanced; Science, Integrated, Advanced	Unified Science	03202	G	1
30.0321	IB Design Technology, Standard	IB Design Technology	03206	E	1
30.0322	IB Design Technology, Higher	IB Design Technology	03206	E	1
30.0622	AP Environmental Science (Changed to 40.0622)	AP Environmental Science	03207	E	1
40.0622	AP Environmental Science	AP Environmental Science	03207	E	1
30.0623	IB Environmental Studies	IB Environmental Science	03208	E	1
40.1000	Aerospace Science, Other	Aerospace	03209	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
40.1011	Aerospace Science	Aerospace	03209	G	1
30.0600	Systems Science, Other	Science, Technology, and Society	03210	G	1
40.0111	Science 8; Physical Science 8 - Middle School Level	Science (grade 8)	03238	G	1
33.0112	Life Sciences Laboratory Assistant/Aide	Life and Physical Sciences—Aide	03995	G	1
33.0113	Physical Sciences Laboratory Assistant/Aide	Life and Physical Sciences—Aide	03995	G	1
30.0121	Science Study, Independent; Science Investigations; Science Research Techniques	Life and Physical Sciences—Independent Study	03997	G	1
30.0100	Biological and Physical Sciences, Other	Life and Physical Sciences—Other	03999	G	1
30.0112	College Pre-Science Skills	Life and Physical Sciences—Other	03999	G	1
30.0131	Outdoor Education	Life and Physical Sciences—Other	03999	G	1
30.0611	Futuristics; Science Technology and the Future; History of the Future; Future Worlds	Life and Physical Sciences—Other	03999	G	1
40.0100	Physical Sciences, Other General	Life and Physical Sciences—Other	03999	G	1
40.0131	Chemistry and Physics Laboratory Techniques	Life and Physical Sciences—Other	03999	G	1
40.0700	Miscellaneous Physical Sciences, Other	Life and Physical Sciences—Other	03999	G	1
40.0900	Planetary Science, Other	Life and Physical Sciences—Other	03999	G	1
40.9900	Physical Sciences, Other	Life and Physical Sciences—Other	03999	G	1
41.0300	Physical Science Technologies, Other	Life and Physical Science—Other	03999	G	1
41.9900	Science Technologies, Other	Life and Physical Science—Other	03999	G	1
52.0104	Science EMH	Life and Physical Sciences—Other	03999	B	1
52.0205	Science EH	Life and Physical Science—Other	03999	B	1
52.0303	Science Deaf	Life and Physical Science—Other	03999	B	1
54.4001	Functional Science	Life and Physical Sciences—Other	03999	B	1
54.4009	Functional Science, not for credit	Life and Physical Sciences—Other	03999	B	1
56.4000	Special Education General Science	Life and Physical Sciences—Other	03999	B	1
56.4001	Resource General Science	Life and Physical Sciences—Other	03999	B	1
56.4009	Resource General Science, not for credit	Life and Physical Sciences—Other	03999	B	1
45.0701	Geography 8 - Middle School Level	World Geography	04001	G	1
45.0704	World Geography; Cultural and Physical Geography;	World Geography	04001	G	1
45.0700	Geography, Other	Particular Topics in Geography	04002	G	1
45.0703	Geography, North American	Particular Topics in Geography	04002	G	1
45.0705	Geography, Western Hemisphere and Africa	Particular Topics in Geography	04002	G	1
45.0706	Geography, Eastern Hemisphere	Particular Topics in Geography	04002	G	1
45.0708	Economic and Political Geography; Economic Geography	Particular Topics in Geography	04002	G	1
45.0709	Human and Cultural Geography; Man and His Environment	Particular Topics in Geography	04002	G	1
45.0710	Field Geography, Honors	Particular Topics in Geography	04002	H	1
45.0711	IB World Geography	IB Geography	04003	E	1
45.0712	AP Human Geography	AP Human Geography	04004	E	1
45.0702	Geography, United States	U.S. Geography	04005	G	1
05.0116	World Studies, Honors; World Cultures, Honors	World History-Overview	04051	H	1
45.0835	World History Studies; Eye on the World; World History and World Geography and World Cultures; Survey of World Culture; History of World Civilization	World History—Overview	04051	G	1
45.0836	World History, College	World History—Overview	04051	C	1

See notes at end of table.



**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
45.0870	Pre-IB World History	World History—Overview	04051	G	1
45.0879	Advanced World History	World History—Overview	04051	G	2
45.0801	History and Geography 7 - Middle School Level	World History and Geography	04052	G	1
05.0115	World Studies 2; World Cultures 2	Modern World History	04053	G	2
45.0837	World History, Modern; Modern World Civilization	Modern World History	04053	G	1
45.0871	IB History Of The Americas I	IB History	04054	E	1
45.0873	IB History of Europe	IB History	04054	E	1
45.0876	IB History of the Americas II	IB History	04054	E	2
45.0877	IB Contemporary History	IB History	04054	E	1
45.1037	IB American Government	IB History	04054	E	1
45.0852	Modern Europe	Modern European History	04055	G	1
45.0855	European History, Advanced Readings	Modern European History	04055	H	1
45.0856	European History, Modern; Western Civilization, Modern	Modern European History	04055	H	1
45.0853	AP European History; European History, Advanced Placement	AP European History	04056	E	1
45.0844	AP World History; World History, Advanced Placement; Western Civilization, Advanced Placement	AP World History	04057	E	1
05.0114	World Studies 1; World Cultures 1	Ancient Civilizations	04058	G	1
45.0845	Ancient and Classical World	Ancient Civilizations	04058	G	1
45.0848	Ancient History and Middle Ages; Ancient World History; Development of Civilization; Early World History	Ancient and Medieval History	04060	G	1
05.0101	Area Studies	World Area Studies	04061	G	1
05.0110	Anglo America	World Area Studies	04061	G	1
05.0111	North America and Current Events	World Area Studies	04061	G	1
05.0112	North and South America	World Area Studies	04061	G	1
05.0113	Latin America; Latin American Studies; Latin America and the Caribbean; Mesoamerica; South America	World Area Studies	04061	G	1
05.0117	Comparative World Cultures	World Area Studies	04061	G	1
05.0118	European Culture Studies, Basic; Western Europe on the Move	World Area Studies	04061	G	1
05.0119	European Culture Studies, General; Western European Culture Studies, Academic; Europe and Current Events; Western Man; European Culture Studies, Regents	World Area Studies	04061	G	1
05.0120	European Culture Studies, Honors; Western European Culture Studies, Honors	World Area Studies	04061	H	1
05.0122	African Area Studies; African Cultural Area	World Area Studies	04061	G	1
05.0123	Africa and South America	World Area Studies	04061	G	1
05.0124	Asian and African Cultural Studies, Basic	World Area Studies	04061	B	1
05.0125	Asian and African Cultural Studies, General; Asian and African Cultural Studies, Regents	World Area Studies	04061	G	1
05.0126	Asian and African Cultural Studies, Honors	World Area Studies	04061	H	1
05.0127	Asian Studies; East Asian Studies; Oriental Cultures; Chinese and Japanese Cultures; Orient; Land of Mystery	World Area Studies	04061	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

CSSC Code	CSSC Course Title(s)	SCED Course Title	SCED Code	Rigor	Sequence
05.0128	History of China	World Area Studies	04061	G	1
05.0129	Asia, Africa and Mideast	World Area Studies	04061	G	1
05.0130	Africa and Middle East	World Area Studies	04061	G	1
05.0131	Middle Eastern Studies	World Area Studies	04061	G	1
05.0132	Middle East, War for Survival	World Area Studies	04061	G	1
05.0133	USSR; Russian and Slavic Studies; Soviet Union; Making of Modern Russia; Soviet Area Studies	World Area Studies	04061	G	1
05.0134	Soviet Union and China	World Area Studies	04061	G	1
05.0135	Soviet Union and Afro American Developing Nations	World Area Studies	04061	G	1
05.0136	History of Russia	World Area Studies	04061	G	1
05.0139	Pacific Rim Nations	World Area Studies	04061	G	1
05.0140	Canadian Area Studies	World Area Studies	04061	G	1
45.0832	North American History	World Area Studies	04061	G	1
45.0833	Mexican History	World Area Studies	04061	G	1
45.0834	South American History	World Area Studies	04061	G	1
45.0849	English History	World Area Studies	04061	G	1
45.0850	English History, Honors	World Area Studies	04061	H	1
45.0857	Third World History	World Area Studies	04061	G	1
45.0858	African History	World Area Studies	04061	G	1
45.0859	Africa, Middle East and Latin America	World Area Studies	04061	G	1
45.0860	Latin American History	World Area Studies	04061	G	1
45.0861	Middle East History	World Area Studies	04061	G	1
45.0862	Israel, History	World Area Studies	04061	G	1
45.0863	Eastern Civilization	World Area Studies	04061	G	1
45.0864	Far East, History	World Area Studies	04061	G	1
45.0865	Asian History, Modern	World Area Studies	04061	G	1
45.0866	Pacific Lands, History	World Area Studies	04061	G	1
45.0867	Russian History	World Area Studies	04061	G	1
45.0840	Western Civilization 9; World Civilization 9	Western Civilization	04063	G	1
45.0841	Western Civilization 9, Honors; World Civilization 9, Honors	Western Civilization	04063	H	1
45.0842	Western Civilization, History; European History	Western Civilization	04063	G	1
45.0843	Early Western Civilization	Western Civilization	04063	G	1
05.0121	Developing Nations; Developing World; Emerging Nations	Contemporary World Issues	04064	G	1
05.0138	Global Education; Global Perspectives; Global Studies; Global Issues; World Problems	Contemporary World Issues	04064	G	1
45.0838	World Civilization, 20th Century; Current World History	Contemporary World Issues	04064	G	1
45.0839	World Civilization, 20th Century, Honors	Contemporary World Issues	04064	H	1
05.0137	Neglected World	Particular Topics in World History	04065	G	1
45.0846	Ancient Greek History	Particular Topics in World History	04065	G	1
45.0847	Rome and Her Empire	Particular Topics in World History	04065	G	1
45.0851	French Revolution, Honors	Particular Topics in World History	04065	H	1
45.0854	European History, 20th Century	Particular Topics in World History	04065	G	1
45.0868	World Leaders, Past and Present	Particular Topics in World History	04065	G	1
45.0869	Historical Research	Particular Topics in World History	04065	G	1
45.1191	Holocaust	Particular Topics in World History	04065	G	1
33.0161	U.S. History, Remedial (Changed to 45.0809)	U.S. History—Comprehensive	04101	B	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
45.0802	Our Cultural Heritage 7 - Middle School Level	U.S. History—Comprehensive	04101	G	1
45.0804	United States History 8 - Middle School Level	U.S. History—Comprehensive	04101	G	1
45.0809	American History, Basic; US History, Basic; American History, Remedial; US History, Remedial	U.S. History—Comprehensive	04101	B	1
45.0810	American History; American History and World Background	U.S. History—Comprehensive	04101	G	1
45.0813	United States History, Honors	U.S. History—Comprehensive	04101	H	1
45.0874	Pre-IB US History	U.S. History—Comprehensive	04101	G	1
45.0811	United States History 1; Age of Discovery; Founding of America	Early U.S. History	04102	G	1
45.0812	United States History 2; Modern American History	Modern U.S. History	04103	G	1
45.0808	United States History, Advanced Placement (Changed to 45.0814)	AP U.S. History	04104	E	1
45.0814	AP American History; AP US History; American History, Advanced Placement; United States History, Advanced Placement; American History, College	AP U.S. History	04104	E	1
45.0807	United States History, State and Local; State History and Government; State History	State-Specific Studies	04105	G	1
05.0102	American Studies, Basic	Contemporary U.S. Issues	04106	B	1
05.0103	American Studies, General; American Studies, Regents; American Studies, Academic; American History and American Character	Contemporary U.S. Issues	04106	G	1
05.0104	America's People and Problems; Factors that Made America Great; American Social Change; Contemporary America	Contemporary U.S. Issues	04106	G	1
05.0105	American Studies, Honors	Contemporary U.S. Issues	04106	H	1
45.0816	Twentieth Century America; Twentieth Century America, Survey; American History, Contemporary	Contemporary U.S. Issues	04106	G	1
45.1014	Contemporary American Political Issues; Contemporary American Problems; Contemporary American Issues; Citizenship; American Problems	Contemporary U.S. Issues	04106	G	1
45.1015	Contemporary American Political Issues, Honors; American Problems, Research	Contemporary U.S. Issues	04106	G	1
05.0211	Minorities in America; Minority Groups in the United States; Minorities; Minorities in United States History; Multi Ethnic Cultures; United States Cultures; American Intercultural Heritage	U.S. Ethnic Studies	04107	G	1
05.0221	Ethnic and Family Heritage	U.S. Ethnic Studies	04107	G	1
05.0231	Afro American Studies; Black Experience; Afro American Culture and History; Black Studies; Black History; American Black History	U.S. Ethnic Studies	04107	G	1
05.0241	Economics of Afro Americans	U.S. Ethnic Studies	04107	G	1
05.0251	Indians of North America; American Indians	U.S. Ethnic Studies	04107	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
05.0261	Jewish Historical Significance	U.S. Ethnic Studies	04107	G	1
05.0271	Mexican American Heritage; Mexican American Studies	U.S. Ethnic Studies	04107	G	1
05.0281	Hawaiiana	U.S. Ethnic Studies	04107	G	1
05.0291	Hawaiian Culture Studies, Modern	U.S. Ethnic Studies	04107	G	1
30.0711	Women's Studies; Women in American Society	U.S. Gender Studies	04108	G	1
05.0106	New England Studies	Particular Topics in U.S. History	04109	G	1
05.0107	Old South	Particular Topics in U.S. History	04109	G	1
05.0108	American West; American Frontiers; Wild West; How the West Was Won	Particular Topics in U.S. History	04109	G	1
05.0109	Southwest United States	Particular Topics in U.S. History	04109	G	1
45.0815	Westward Movement	Particular Topics in U.S. History	04109	G	1
45.0817	Twenties and Thirties; Roaring 20's and Depressed 30's	Particular Topics in U.S. History	04109	G	1
45.0818	America Since 1945; America, Post World War; United States History, Recent	Particular Topics in U.S. History	04109	G	1
45.0819	Nineteen Sixties	Particular Topics in U.S. History	04109	G	1
45.0820	Nineteen Seventies	Particular Topics in U.S. History	04109	G	1
45.0821	Reform in American History	Particular Topics in U.S. History	04109	G	1
45.0822	American Inquiries	Particular Topics in U.S. History	04109	G	1
45.0823	Historic Events, United States	Particular Topics in U.S. History	04109	G	1
45.0824	American Wars, Causes and Effects; World Wars; American Wars and Diplomacy	Particular Topics in U.S. History	04109	G	1
45.0825	Civil War	Particular Topics in U.S. History	04109	G	1
45.0826	Civil War, Reconstruction and Industrialism	Particular Topics in U.S. History	04109	G	1
45.0827	War and Modern Consciousness	Particular Topics in U.S. History	04109	G	1
45.0828	World War II	Particular Topics in U.S. History	04109	G	1
45.0829	United States Military History 1	Particular Topics in U.S. History	04109	G	1
45.0830	United States Military History 2	Particular Topics in U.S. History	04109	G	2
45.0831	United States History, Field Study	U.S. History—Other	04149	G	1
45.1003	Government, Basic; Government and Contemporary American Problems	U.S. Government—Comprehensive	04151	G	1
45.1004	American Government; Government; Practical Government; Political Studies; Federal Government; United States Government; Government and Decision Making; United States History and Government	U.S. Government—Comprehensive	04151	G	1
45.1013	American Heritage, Honors; Political Studies; Honors	U.S. Government—Comprehensive	04151	H	1
45.1034	Pre-IB American Government/Economics	U.S. Government—Comprehensive	04151	G	1
45.1002	State and Local Government	Particular Topics in U.S. Government	04152	G	1
45.1005	Presidency; Presidential Roles; Constitution and Presidency	Particular Topics in U.S. Government	04152	G	1
45.1006	Framework of the Constitution; Rights and Responsibilities; Constitutional History	Particular Topics in U.S. Government	04152	G	1
45.1007	Individual vs. State; Liberty and the Law	Particular Topics in U.S. Government	04152	G	1
45.1008	National State and Local Elections; Government and Politics; Youth and Local Politics; American Politics; American Political Behavior; Political Issues; American Political Systems	Particular Topics in U.S. Government	04152	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
45.1009	Elections, Politics and Morality, Honors	Particular Topics in U.S. Government	04152	H	1
45.1011	American Foreign Policy; United States as a World Power; American Government in World Affairs	Particular Topics in U.S. Government	04152	G	1
45.1012	Decision Making in a Crisis; Ideas in Conflict	Particular Topics in U.S. Government	04152	G	1
45.1029	Political Science	Political Science	04153	G	1
45.1019	Comparative Political Systems, Basic	Comparative Government	04154	B	1
45.1020	Comparative World Governments; Comparative Political Systems	Comparative Government	04154	G	1
45.1021	Americanism vs. Communism	Comparative Government	04154	G	1
45.1022	Americanism vs. Communism, Honors	Comparative Government	04154	H	1
45.0900	International Relations, Other	International Relations	04155	G	1
45.0911	International Relations; Foreign Policy Problems; Global Relations	International Relations	04155	G	1
45.0921	International Relations, Honors	International Relations	04155	H	1
32.0119	Contemporary Issues, Basic Skills (Changed to 45.1033)	United States and World Affairs	04156	B	1
45.1010	Contemporary World Affairs; Current Events; Current Affairs; Media and Politics; Critical Issues	United States and World Affairs	04156	G	1
45.1023	Communism and Its Growth	United States and World Affairs	04156	G	1
45.1033	Contemporary Issues, Basic Skills	United States and World Affairs	04156	B	1
45.1035	AP American Government and Politics	AP U.S. Government and Politics	04157	E	1
45.1036	AP Comparative Government and Politics	AP Comparative Government and Politics	04158	E	1
45.1030	Political Science, Advanced Placement (Changed to either 45.1035 or 45.1036)	AP Government	04159	E	1
45.1016	American Government and Economics, Basic	Principles of Democracy	04160	B	1
45.1017	American Government and Economics; Today's Problems; Problems of Democracy and Economics; American Institutions; Problems of Democracy	Principles of Democracy	04160	G	1
45.1018	American Government and Economics, Honors	Principles of Democracy	04160	H	1
45.1001	Civics; Community Civics	Civics	04161	G	1
45.1024	Civics, Honors; European Civics	Civics	04161	H	1
22.0100	Law, Other	Law Studies	04162	G	1
22.0111	Law Fundamentals; Parliament and Court Procedures; Criminal Law; Legal Rights	Law Studies	04162	G	1
22.0131	Street Law	Legal System	04165	G	1
22.0121	Law and You; On Trial; Criminology and Justice; Youth and the Law; Law Enforcement and the Courts; Civil Liberties and the Law; Law and Juvenile Justice; Practical Law; Everyday Law	Particular Topics in Law	04166	G	1
45.0931	International Law	Particular Topics in Law	04166	G	1
45.0941	Model Security Council, Local	Simulated Political Process	04167	G	1
45.0951	Model United Nations, Local	Simulated Political Process	04167	G	1
45.0952	Model United Nations, National	Simulated Political Process	04167	G	1
45.1027	Model Senate	Simulated Political Process	04167	G	1
45.0872	IB Twentieth Century World Topics	IB Twentieth Century World Topics	04168	E	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
45.1031	Political Science and Government - Local/Regional Government Field Study	Government, Politics, and Law—Independent Study	04197	G	1
45.1026	Government Internship	Government, Politics, and Law—Workplace Experience	04198	G	1
45.1000	Political Science and Government, Other	Government, Politics, and Law—Other	04199	G	1
45.1025	Writings Influencing Government	Government, Politics, and Law—Other	04199	G	1
45.1032	Political Turmoil	Government, Politics, and Law—Other	04199	G	1
45.0601	Economics, Theory; Economics 1; Economics, Basic	Economics	04201	G	1
45.0611	Economics, College	Economics	04201	C	1
45.0602	Economics and Economic Problems; Economics for Today and the Future; Economics 2; American Economy; Free Enterprise; Economics Now; Comparative Economics	Comparative Economics	04202	G	1
45.0613	AP Microeconomics; AP Economics	AP Microeconomics	04203	E	1
45.0614	AP Macroeconomics	AP Macroeconomics	04204	E	1
45.0615	IB Microeconomics	IB Economics	04206	E	1
45.0616	IB Macroeconomics	IB Economics	04206	E	1
45.0617	IB Economics 1	IB Economics	04206	E	1
45.0618	IB Economics 2	IB Economics	04206	E	2
45.0603	Consumer Economics; Consumer and the Economy; Economics and the Consumer	Particular Topics in Economics	04207	G	1
45.0604	Filing Your Income Taxes; Income Taxes	Particular Topics in Economics	04207	G	1
45.0605	Insurance Theory	Particular Topics in Economics	04207	G	1
45.0606	Investment Economics	Particular Topics in Economics	04207	G	1
45.0607	Television and Economics	Particular Topics in Economics	04207	G	1
45.0608	Energy Education	Particular Topics in Economics	04207	G	1
45.0610	Economics, Analysis and Criticism	Particular Topics in Economics	04207	G	1
45.0612	International Economics	Particular Topics in Economics	04207	G	1
45.0600	Economics, Other	Economics—Other	04249	G	1
45.0211	Anthropology	Anthropology	04251	G	1
45.0200	Anthropology, Other	Particular Topics in Anthropology	04252	G	1
45.0221	Comparative Cultural Patterns; Multicultural Education; Cultural Pluralism	Particular Topics in Anthropology	04252	G	1
45.0231	Anthropology, Myth and Magic	Particular Topics in Anthropology	04252	G	1
45.0241	Cultural Anthropology, Research; Oral History Collection	Particular Topics in Anthropology	04252	G	1
45.0261	Human Origins	Particular Topics in Anthropology	04252	G	1
45.0300	Archaeology, Other	Particular Topics in Anthropology	04252	G	1
45.0311	Archaeology	Particular Topics in Anthropology	04252	G	1
45.0251	IB Social Anthropology 1	IB Social Anthropology	04253	E	1
45.0252	IB Social Anthropology 2	IB Social Anthropology	04253	E	2
42.0100	Psychology, Other General	Psychology	04254	G	1
42.0111	Psychology; Behavioral Sciences, Introduction; Human Behavior	Psychology	04254	G	1
42.0112	Psychology, Advanced	Psychology	04254	G	1
42.0113	Abnormal Psychology	Particular Topics in Psychology	04255	G	1
42.0200	Clinical Psychology, Other	Particular Topics in Psychology	04255	G	1
42.0300	Cognitive Psychology, Other	Particular Topics in Psychology	04255	G	1
42.0311	Psychology of Learning	Particular Topics in Psychology	04255	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
42.0321	Educational Psychology	Particular Topics in Psychology	04255	G	1
42.0400	Community Psychology, Other	Particular Topics in Psychology	04255	G	1
42.0500	Comparative Psychology, Other	Particular Topics in Psychology	04255	G	1
42.0600	Counseling Psychology, Other	Particular Topics in Psychology	04255	G	1
42.0700	Developmental Psychology, Other	Particular Topics in Psychology	04255	G	1
42.0711	Child Psychology	Particular Topics in Psychology	04255	G	1
42.0721	Adolescent Psychology; Adolescent Development	Particular Topics in Psychology	04255	G	1
42.0731	Adjustment Psychology	Particular Topics in Psychology	04255	G	1
42.0800	Experimental Psychology, Other	Particular Topics in Psychology	04255	G	1
42.0900	Industrial and Organizational Psychology, Other	Particular Topics in Psychology	04255	G	1
42.1000	Personality Psychology, Other	Particular Topics in Psychology	04255	G	1
42.1011	Historical Personalities and Ideas	Particular Topics in Psychology	04255	G	1
42.1021	Humanistic Psychology	Particular Topics in Psychology	04255	G	1
42.1100	Physiological Psychology, Other	Particular Topics in Psychology	04255	G	1
42.1200	Psycholinguistics, Other	Particular Topics in Psychology	04255	G	1
42.1300	Psychometrics, Other	Particular Topics in Psychology	04255	G	1
42.1400	Psychopharmacology, Other	Particular Topics in Psychology	04255	G	1
42.1411	Psychopharmacology	Particular Topics in Psychology	04255	G	1
42.1500	Quantitative Psychology, Other	Particular Topics in Psychology	04255	G	1
42.1600	Social Psychology, Other	Particular Topics in Psychology	04255	G	1
42.1611	Social Psychology	Particular Topics in Psychology	04255	G	1
42.9900	Psychology, Other	Particular Topics in Psychology	04255	G	1
42.0114	AP Psychology	AP Psychology	04256	E	1
42.0115	IB Psychology 1	IB Psychology	04257	E	1
42.0116	IB Psychology 2	IB Psychology	04257	E	2
45.1121	Sociology, General	Sociology	04258	G	1
45.1171	Sociology, Honors	Sociology	04258	H	1
45.0400	Criminology, Other	Particular Topics in Sociology	04259	G	1
45.0500	Demography, Other	Particular Topics in Sociology	04259	G	1
45.0511	Population Education; United States Census	Particular Topics in Sociology	04259	G	1
45.0609	American Labor History	Particular Topics in Sociology	04259	G	1
45.1100	Sociology, Other	Particular Topics in Sociology	04259	G	1
45.1111	American Social Problems, Introduction; Social Problems; Social Issues; Community and Intergroup Relations	Particular Topics in Sociology	04259	G	1
45.1131	Sociology, Issues	Particular Topics in Sociology	04259	G	1
45.1132	The Poor in America	Particular Topics in Sociology	04259	G	1
45.1141	Mobility in Society	Particular Topics in Sociology	04259	G	1
45.1151	Violence In America	Particular Topics in Sociology	04259	G	1
45.1161	Death and Dying	Particular Topics in Sociology	04259	G	1
45.1200	Urban Studies, Other	Particular Topics in Sociology	04259	G	1
45.1211	Urban Problems; Urban Social Problems; City in United States History; Urban Environment and Problems; Urban Survival; Urban Studies	Particular Topics in Sociology	04259	G	1
45.1221	Urban Ecology	Particular Topics in Sociology	04259	G	1
45.1231	Technology and Urbanization	Particular Topics in Sociology	04259	G	1
45.0111	Social Science, Introduction; Social Studies, Introduction; Social Studies Skills	Social Science	04260	G	1
45.0121	Social Science, Advanced Theory and Research	Social Science	04260	H	1

See notes at end of table.

**Table A-1. C**SSC/SCED Crosswalk—Continued

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
45.0131	Social Science Seminar	Social Science Research	04261	G	1
45.1181	Sociology, Research	Social Science Research	04261	G	1
45.0141	Social Studies, Independent Study; Social Studies, Independent Research; Social Studies, Independent Reading	Social Sciences—Independent Study	04297	G	1
45.0100	Social Sciences, Other General	Social Sciences—Other	04299	G	1
45.9900	Social Sciences, Other	Social Sciences—Other	04299	G	1
54.4501	Functional Social Studies	Social Sciences—Other	04299	B	1
54.4509	Functional Social Studies, not for credit	Social Sciences—Other	04299	B	1
56.4500	Special Education Social Studies	Social Sciences—Other	04299	B	1
56.4501	Resource Social Studies	Social Sciences—Other	04299	B	1
56.4509	Resource Social Studies, not for credit	Social Sciences—Other	04299	B	1
30.0411	Humanities; People and Their Culture	Humanities Survey	04301	G	1
30.0421	Humanities, European; Humanities of Western Civilization	Issues of Western Humanities	04303	G	1
38.0142	IB Theory of Knowledge	IB Theory of Knowledge	04304	E	1
38.0111	Philosophy; Systems of Philosophy; Philosophy Seminar	Philosophy	04306	G	1
38.0100	Philosophy, Other	Particular Topics in Philosophy	04307	G	1
38.0121	Ethics	Particular Topics in Philosophy	04307	G	1
38.0131	Logic; English Language, Logic and Reason; Clear Thinking	Particular Topics in Philosophy	04307	G	1
38.0141	Epistemics	Particular Topics in Philosophy	04307	G	1
38.0151	Social Justice Issues; Peace and Social Justice	Particular Topics in Philosophy	04307	G	1
38.0112	IB Philosophy	IB Philosophy	04309	E	1
24.0111	Liberal Studies	Particular Topics in Humanities	04310	G	1
30.0431	Humanities, American	Particular Topics in Humanities	04310	G	1
30.0441	Humanities, African	Particular Topics in Humanities	04310	G	1
30.0451	Humanities, Near East and Far East	Particular Topics in Humanities	04310	G	1
30.0500	Peace Studies, Other	Particular Topics in Humanities	04310	G	1
45.0803	Social Studies 7, Honors - Middle School Level	Social Studies (grade 7)	04437	H	1
45.0805	Social Studies 8 - Middle School Level	Social Studies (grade 8)	04438	G	1
45.0806	Social Studies 8, Honors - Middle School Level	Social Studies (grade 8)	04438	H	1
05.0100	Area Studies, Other	Social Sciences and History—Other	04999	G	1
05.0200	Ethnic Studies, Other	Social Sciences and History—Other	04999	G	1
05.9900	Area and Ethnic Studies, Other	Social Sciences and History—Other	04999	G	1
24.0100	Liberal/General Studies, Other	Social Sciences and History—Other	04999	G	1
30.0400	Humanities and Social Sciences, Other	Social Sciences and History—Other	04999	G	1
30.0700	Women's Studies, Other	Social Sciences and History—Other	04999	G	1
30.9900	Multi/Interdisciplinary Studies, Other	Social Sciences and History—Other	04999	G	1
45.0800	History, Other	Social Sciences and History—Other	04999	G	1
52.0105	Social Studies EMH	Social Sciences and History—Other	04999	B	1
52.0206	Social Studies EH	Social Sciences and History—Other	04999	B	1
52.0304	Social Studies Deaf	Social Sciences and History—Other	04999	B	1
50.0312	Modern Dance for Beginners 2; Creative Dance 2; Rhythm and Dance 2	Dance Technique	05001	G	2
50.0313	Modern Dance for Beginners 3; Creative Dance 3; Rhythm and Dance 3	Dance Technique	05001	G	3

See notes at end of table.



**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
50.0314	Modern Dance for Beginners 4; Creative Dance 4; Rhythm and Dance 4	Dance Technique	05001	G	4
50.0321	Modern Dance 1, Intermediate	Dance Technique	05001	G	1
50.0322	Modern Dance 2, Intermediate	Dance Technique	05001	G	2
50.0323	Modern Dance 3, Intermediate	Dance Technique	05001	G	3
50.0324	Modern Dance 4, Intermediate	Dance Technique	05001	G	4
50.0331	Dance 1, Advanced	Dance Technique	05001	H	1
50.0332	Dance 2, Advanced	Dance Technique	05001	H	2
50.0333	Dance 3, Advanced	Dance Technique	05001	H	3
50.0334	Dance 4, Advanced	Dance Technique	05001	H	4
50.0381	Aerobic Dance	Dance Technique	05001	G	1
50.0341	Performing Dance Group 1	Dance Repertory	05002	G	1
50.0342	Performing Dance Group 2	Dance Repertory	05002	G	2
50.0343	Performing Dance Group 3	Dance Repertory	05002	G	3
50.0344	Performing Dance Group 4	Dance Repertory	05002	G	4
50.0311	Modern Dance for Beginners 1; Rhythm and Dance 1	General Dance	05003	G	1
50.0351	Ballet and Jazz for Beginners 1	Dance Survey	05006	G	1
50.0352	Ballet and Jazz for Beginners 2	Dance Survey	05006	G	2
50.0353	Ballet and Jazz for Beginners 3	Dance Survey	05006	G	3
50.0354	Ballet and Jazz for Beginners 4	Dance Survey	05006	G	4
50.0361	Ethnic Dance; Folk Dance	World/Cultural Dance	05008	G	1
50.0371	Square Dance	Social Dance	05010	G	1
50.0335	IB Dance	IB Dance	05012	E	1
50.0300	Dance, Other	Dance—Other	05049	G	1
50.0511	Stagecraft 1; Acting Fundamentals 1; Theater Arts 1	Theater Arts	05052	G	1
50.0512	Stagecraft 2; Stage Design and Stagecraft 2; Play Production 2; Dramatics 2; Acting Fundamentals 2	Theater Arts	05052	G	2
50.0513	Stagecraft 3; Dramatics 3; Theater Projects 3; Theater Production 3; Acting Fundamentals 3; Play Production 3; Acting Workshop	Theater Arts	05052	G	3
50.0514	Stagecraft 4; Dramatics 4; Theater Projects 4; Acting Fundamentals 4; Play Production 4; Theater Workshop 4	Theater Arts	05052	G	4
50.0521	Improvisation and Mime	Drama—Acting/Performance	05055	G	1
50.0421	Theater Makeup	Theater—Stagecraft	05056	G	1
50.0431	Lighting Fundamentals, Theater	Theater—Stagecraft	05056	G	1
50.0531	Playwriting	Playwriting and Screenwriting	05058	G	1
50.0551	Drama, History	History and Literature of the Theater	05059	G	1
50.0965	Music Theater; American Musical Theater; Jazz and Stage Ensemble; Mixed Ensembles (Instrumental/Vocal) Theater Music Workshop	Musical Theater	05060	G	1
50.0571	IB Theater I	IB Theatre	05062	E	1
50.0572	IB Theater II	IB Theatre	05062	E	2
50.0541	Theater Practicum Contract	Theater—Independent Study	05097	G	1
50.0561	Drama, Independent Study	Theater—Independent Study	05097	G	1
50.0500	Dramatic Arts, Other	Drama—Other	05099	G	1
50.0903	Band 7 - Middle School Level	General Band	05101	G	1
50.0904	Band 7, Advanced - Middle School Level	General Band	05101	E	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
50.0905	Band 8 - Middle School Level	General Band	05101	G	1
50.0906	Band 8, Advanced - Middle School Level	General Band	05101	E	1
50.0907	Band 9 - Middle School Level	General Band	05101	G	1
50.0908	Band 9, Advanced - Middle School Level	General Band	05101	E	1
50.0909	Band, Concert	Concert Band	05102	G	1
50.0910	Band, Marching	Marching Band	05103	G	1
50.0911	Band, Symphonic; Senior Band Front	Orchestra	05104	G	1
50.0912	Orchestra 7 - Middle School Level	Orchestra	05104	G	1
50.0913	Orchestra 7, Advanced - Middle School Level	Orchestra	05104	E	1
50.0914	Orchestra 8 - Middle School Level	Orchestra	05104	G	1
50.0915	Orchestra 8, Advanced - Middle School Level	Orchestra	05104	E	1
50.0916	Orchestra 1	Orchestra	05104	G	1
50.0917	Orchestra 1, Advanced	Orchestra	05104	E	1
50.0918	Orchestra 2	Orchestra	05104	G	2
50.0919	Orchestra 3; Concert Orchestra	Orchestra	05104	G	3
50.0920	Orchestra 4; Symphonic Orchestra	Orchestra	05104	G	4
50.0926	Ensemble, Instrumental; Stage Band; Music on Stage; Jazz Ensemble	Instrumental Ensembles	05106	G	1
50.0931	Piano 1; Keyboard	Piano	05107	G	1
50.0932	Piano 2	Piano	05107	G	2
50.0927	Guitar, Beginning	Guitar	05108	G	1
50.0928	Guitar, Intermediate	Guitar	05108	G	2
50.0929	Guitar, Advanced	Guitar	05108	G	3
50.0922	Brass and Percussion Class	Individual Technique—Instrumental Music	05109	G	1
50.0923	Wind Ensemble; Brasswind	Individual Technique—Instrumental Music	05109	G	1
50.0924	Woodwind Class	Individual Technique—Instrumental Music	05109	G	1
50.0930	Handbells	Individual Technique—Instrumental Music	05109	G	1
50.0933	Organ	Individual Technique—Instrumental Music	05109	G	1
50.0935	Chorus 7 - Middle School Level	Chorus	05110	G	1
50.0936	Chorus 7, Advanced - Middle School Level	Chorus	05110	E	1
50.0937	Chorus 8 - Middle School Level	Chorus	05110	G	1
50.0938	Chorus 8, Advanced - Middle School Level	Chorus	05110	E	1
50.0939	Chorus 1	Chorus	05110	G	1
50.0940	Chorus 1, Advanced	Chorus	05110	E	1
50.0941	Chorus 2	Chorus	05110	G	1
50.0942	Chorus 2, Advanced	Chorus	05110	E	1
50.0943	Chorus 3	Chorus	05110	G	1
50.0944	Chorus 3, Advanced	Chorus	05110	E	1
50.0945	Chorus 4	Chorus	05110	G	1
50.0946	Chorus 4, Advanced	Chorus	05110	E	1
50.0947	Vocal Ensemble; Madrigal Singers; Concert Chorale; Glee Club; Pop Rock Ensemble; Barbershop Octet; Chamber Singers; A Capella Choir	Vocal Ensemble	05111	G	1
50.0934	Music Lessons, Applied	Individual Technique—Vocal Music	05112	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
50.0948	Voice Class; Ear Training and Sight Singing	Individual Technique—Vocal Music	05112	G	1
50.0952	Music Theory; Musicianship	Music Theory	05113	G	1
50.0969	AP Music Theory	AP Music Theory	05114	E	1
50.0968	IB Music I	IB Music	05115	E	1
50.0971	IB Music II	IB Music	05115	E	2
50.0959	Music Literature 1; Traditional Music 1, Survey	Music History/Appreciation	05116	G	1
50.0960	Music Literature 2; Traditional Music 2, Survey	Music History/Appreciation	05116	G	2
50.0961	Music Literature 3; Traditional Music 3, Survey	Music History/Appreciation	05116	G	3
50.0962	Music Literature 4; Traditional Music 4, Survey	Music History/Appreciation	05116	G	4
50.0953	Music History 7 - Middle School Level	Music History	05117	G	1
50.0954	Music History 8; Music Through the Ages - Middle School Level	Music History	05117	G	1
50.0955	Music History 1; Contemporary Music 1; Pop Music History 9 - Middle School Level	Music History	05117	G	1
50.0956	Music History 2; Contemporary Music 2; Pop Music History 2	Music History	05117	G	2
50.0957	Music History 3; Contemporary Music 3; Pop Music History 3	Music History	05117	G	3
50.0958	Music History 4; Contemporary Music 4; Pop Music History 4	Music History	05117	G	4
50.0963	Music Appreciation; Adventures in Listening	Music Appreciation	05118	G	1
50.0949	Harmony and Composition; Composition, Musical	Composition/Songwriting	05119	G	1
50.0921	Instrumental String Class	Strings	05120	G	1
50.0964	Folk Music, Ethnic	Culturally Influenced Ensemble	05122	G	1
50.0925	Electronic Music, Introduction	Technology/Electronic Music	05124	G	1
50.0901	Music 7; Music Introduction - Middle School Level	Music (grade 7)	05137	G	1
50.0902	Music 8 - Middle School Level	Music (grade 8)	05138	G	1
50.0966	Music, Independent Study; Symphony and Lecture Series; Music Reading and Conference	Music—Independent Study	05147	G	1
50.0900	Music, Other	Music—Other	05149	G	1
50.0950	Arranging; Orchestration	Music—Other	05149	G	1
50.0951	Conducting	Music—Other	05149	G	1
50.0967	Music Laboratory, General Survey	Music—Other	05149	G	1
50.0726	Art History and Appreciation; Arts and the Masters	Art History	05152	G	1
50.0729	Bicultural Art	Art History	05152	G	1
50.0731	Ethnic Art History	Art History	05152	G	1
50.0732	Art As A Multicultural Study	Art History	05152	G	1
50.0733	AP Art History	AP Art History	05153	E	1
50.0703	Art, General; Survey Media; Studio in Art; Fine Arts Studio; Studio Art Laboratory; Arts and Crafts Studio	Visual Arts—Comprehensive	05154	G	1
50.0704	Art 1; Art 9	Visual Arts—Comprehensive	05154	G	1
50.0705	Art 2; Art 10	Visual Arts—Comprehensive	05154	G	2
50.0706	Art 3; Art 11	Visual Arts—Comprehensive	05154	G	3

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
50.0714	Drawing; Drawing and Painting; Two Dimensional Design; Drawing and Color; Drawing Techniques	Visual Arts—Drawing/Painting	05155	G	1
50.0724	Life Drawing; Figure Drawing; Portraiture	Visual Arts—Drawing	05156	G	1
50.0715	Painting 1	Visual Arts—Painting	05157	G	1
50.0716	Painting 2	Visual Arts—Painting	05157	G	2
50.0717	Watercolor; Watercolor Painting; Watercolors and Airbrush	Visual Arts—Painting	05157	G	1
50.0720	Sculpture; Three Dimensional Art; Three Dimensional Design; Wood and Stone Carving; Plastic Arts	Visual Arts—Sculpture	05158	G	1
50.0221	Crafts 3, Advanced; Creative Crafts 3, Advanced; Design Crafts 3, Advanced	Ceramics/Pottery	05159	G	3
50.0222	Crafts 4, Advanced	Ceramics/Pottery	05159	G	4
50.0261	Ceramics 7 - Middle School Level	Ceramics/Pottery	05159	G	1
50.0262	Ceramics 8 - Middle School Level	Ceramics/Pottery	05159	G	1
50.0263	Ceramics 1	Ceramics/Pottery	05159	G	1
50.0264	Ceramics 2; Pottery 1	Ceramics/Pottery	05159	G	2
50.0265	Ceramics 3; Pottery 2	Ceramics/Pottery	05159	G	3
50.0266	Ceramics 4; Pottery 3	Ceramics/Pottery	05159	G	4
50.0291	Printmaking 1; Printer's Ink	Printmaking	05161	G	1
50.0292	Printmaking 2	Printmaking	05161	G	2
50.0411	Graphic Design	Visual Communications Design	05162	G	1
50.0271	Textile Design; Art Textiles, Fiber Design; Weaving and Dyeing	Textiles	05164	G	1
50.0200	Crafts, Other	Crafts	05165	G	1
50.0211	Crafts 7 - Middle School Level	Crafts	05165	G	1
50.0212	Crafts 8 - Middle School Level	Crafts	05165	G	1
50.0213	Crafts 1; Creative Crafts 1	Crafts	05165	G	1
50.0214	Crafts 2; Creative Crafts 2; Applied Art 2; Home Decorative Crafts 1	Crafts	05165	G	2
50.0215	Crafts 3; Creative Crafts 3; Applied Art 3; Home Decorative Crafts 2	Crafts	05165	G	3
50.0216	Crafts 4; Creative Crafts 4; Applied Art 4	Crafts	05165	G	4
50.0231	Decorator Crafts	Crafts	05165	G	1
50.0722	Assemblage	Crafts	05165	G	1
50.0241	Enameling	Jewelry	05166	G	1
50.0251	Jewelry 1; Art Metals 1	Jewelry	05166	G	1
50.0252	Jewelry 2; Art Metals 2	Jewelry	05166	G	2
50.0253	Jewelry 3; Art Metals 3	Jewelry	05166	G	3
50.0254	Jewelry 4; Art Metals 4	Jewelry	05166	G	4
50.0621	Photography 1	Photography	05167	G	1
50.0622	Photography 2, Elementary; Visual Composition	Photography	05167	G	2
50.0623	Photography 3, Elementary	Photography	05167	G	3
50.0631	Photography 2, Advanced	Photography	05167	H	2
50.0632	Photography 3, Advanced	Photography	05167	H	3
50.0600	Film Arts, Other	Cinematography/Video Production	05168	G	1
50.0611	Film Study; Film Criticism; Film Appreciation	Cinematography/Video Production	05168	G	1
50.0811	Computer Graphics Design; Computer Art	Multimedia Art	05169	G	1
50.0707	Art 4; Art 12	Art Portfolio	05170	G	1
50.0734	AP Studio Art/General	AP Studio Art—General Portfolio	05171	E	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
50.0735	AP Studio Art/Drawing	AP Studio Art—Drawing Portfolio	05172	E	1
50.0736	IB Art Studies I	IB Art/Design	05173	E	1
50.0737	IB Art Studio I	IB Art/Design	05173	E	1
50.0740	IB Art Studies II	IB Art/Design	05173	E	2
50.0741	IB Art Studio II	IB Art/Design	05173	E	2
50.0742	IB Art I	IB Art/Design	05173	E	1
50.0743	IB Art II	IB Art/Design	05173	E	2
50.0738	AP Studio Art/2-D Design	AP Studio Art—Two-Dimensional	05174	E	1
50.0739	AP Studio Art/3-D Design	AP Studio Art—Three-Dimensional	05174	E	1
50.0725	Calligraphy	Calligraphy/Lettering	05176	G	1
50.0718	Cartooning	Animation	05177	G	1
50.0701	Fine Arts 7; Art 7 - Middle School Level	Art (grade 7)	05188	G	1
50.0702	Fine Arts 8; Art 8 - Middle School Level	Art (grade 8)	05189	G	1
50.0723	Product Design; Design; Color and Design	Industrial Design	05191	G	1
04.0221	Architectural Theory	Architectural Design	05192	G	1
04.0300	City, Community, and Regional Planning, Other	Architectural Design	05192	G	1
04.0400	Environmental Design, Other	Architectural Design	05192	G	1
04.0700	Urban Design, Other	Architectural Design	05192	G	1
04.9900	Architecture and Environmental Design, Other	Architectural Design	05192	G	1
04.0500	Interior Design, Other	Interior Design	05193	G	1
04.0511	Interior Design	Interior Design	05193	G	1
50.0613	IB Film Studies	IB Film	05194	E	1
50.0708	Art 1, Independent Study	Visual Art—Independent Study	05197	G	1
50.0709	Art 2, Independent Study; Senior Studio Art	Visual Art—Independent Study	05197	G	2
50.0400	Design, Other	Visual Arts—Other	05199	G	1
50.0800	Graphic Arts Technology, Other	Visual Arts—Other	05199	G	1
50.0111	Aesthetics; Art/Music/Drama/Dance Survey	Interdisciplinary Arts	05201	G	1
50.0612	Language of the Cinema	Film Appreciation and Analysis	05203	G	1
50.0711	Art Services 1; School Beautification 1	Visual and Performing Art—Aide	05995	G	1
50.0712	Art Services 2; School Beautification 2	Visual and Performing Art—Aide	05995	G	2
50.0713	Art Services 3; School Beautification 3	Visual and Performing Art—Aide	05995	G	3
50.0730	Artist in Residence Program	Visual and Performing Art—Independent Study	05997	G	1
50.0100	Visual and Performing Arts, Other General	Visual and Performing Art—Other	05999	G	1
50.0281	Model Building	Visual and Performing Art—Other	05999	G	1
50.0700	Fine Arts, Other	Visual and Performing Art—Other	05999	G	1
50.0719	Mural Painting	Visual and Performing Art—Other	05999	G	1
50.0727	Black Fine Arts	Visual and Performing Art—Other	05999	G	1
50.0728	Mexico, Fine Arts	Visual and Performing Art—Other	05999	G	1
50.9900	Visual and Performing Arts, Other	Visual and Performing Art—Other	05999	G	1
16.0931	Spanish 7; Spanish for Survival - Middle School Level	Spanish	06100	G	1
16.0932	Spanish 8 - Middle School Level	Spanish	06100	G	1
16.0933	Spanish 1; Spanish 9; Spanish, Beginning	Spanish I	06101	G	1
16.0934	Spanish 2; Spanish 10	Spanish II	06102	G	1
16.0935	Spanish 3; Spanish 11; Spanish, Intermediate	Spanish III	06103	G	1
16.0936	Spanish 4	Spanish IV	06104	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
16.0937	Spanish 5	Spanish V	06105	G	1
16.0940	Spanish for Native Speakers (Changed to 16.1311-16.1315)	Spanish for Native Speakers	06106	G	1
16.1311	Spanish for Native Speakers 1	Spanish for Native Speakers	06106	G	1
16.1312	Spanish for Native Speakers 2	Spanish for Native Speakers	06106	G	2
16.1313	Spanish for Native Speakers 3	Spanish for Native Speakers	06106	G	3
16.1314	Spanish for Native Speakers 4	Spanish for Native Speakers	06106	G	4
16.1315	Spanish for Native Speakers 5	Spanish for Native Speakers	06106	G	5
16.0938	Spanish Field-Based Experience; Spanish Seminar	Spanish Field Experience	06107	G	1
16.0941	Spanish for Travelers	Spanish Conversation and Culture	06108	G	1
16.0945	IB Spanish 4	IB Language A (non-English)—Spanish	06111	E	1
16.0946	IB Spanish 5	IB Language B—Spanish	06111	E	2
16.0951	AP Spanish Language	AP Spanish Language and Culture	06112	E	1
16.0952	AP Spanish Literature	AP Spanish Literature and Culture	06113	E	1
16.0901	French 7 - Middle School Level	French	06120	G	1
16.0902	French 8 - Middle School Level	French	06120	G	1
16.0903	French 1; French 9	French I	06121	G	1
16.0904	French 2; French 10	French II	06122	G	1
16.0905	French 3; French 11	French III	06123	G	1
16.0906	French 4; French 12	French IV	06124	G	1
16.0907	French 5	French V	06125	G	1
16.1361	French for Native Speakers 1	French for Native Speakers	06126	G	1
16.1362	French for Native Speakers 2	French for Native Speakers	06126	G	2
16.1363	French for Native Speakers 3	French for Native Speakers	06126	G	3
16.1364	French for Native Speakers 4	French for Native Speakers	06126	G	4
16.0908	French Field-Based Experience; French Seminar; French Reading and Conference; French for Travelers	French Field Experience	06127	G	1
16.0910	French, Conversational	French Conversation and Culture	06128	G	1
16.0943	IB French 4	IB Language A (non-English)—French	06131	E	1
16.0944	IB French 5	IB Language B—French	06131	E	2
16.0949	AP French Language	AP French Language and Culture	06132	E	1
16.0950	AP French Literature	AP French Literature	06133	E	1
16.0911	Italian 7 - Middle School Level	Italian	06140	G	1
16.0912	Italian 8 - Middle School Level	Italian	06140	G	1
16.0913	Italian 1; Italian 9	Italian I	06141	G	1
16.0914	Italian 2; Italian 10	Italian II	06142	G	1
16.0915	Italian 3; Italian 11	Italian III	06143	G	1
16.0916	Italian 4; Italian 12	Italian IV	06144	G	1
16.0917	Italian 5	Italian V	06145	G	1
16.1331	Italian for Native Speakers 1	Italian for Native Speakers	06146	G	1
16.1332	Italian for Native Speakers 2	Italian for Native Speakers	06146	G	2
16.1333	Italian for Native Speakers 3	Italian for Native Speakers	06146	G	3
16.0918	Italian Field-Based Experience	Italian Field Experience	06147	G	1
16.0955	AP Italian Language and Culture	AP Italian Language and Culture	06152	E	1
16.0926	Portuguese 1	Portuguese I	06161	G	1
16.0927	Portuguese 2	Portuguese II	06162	G	1
16.0928	Portuguese 3	Portuguese III	06163	G	1
16.0929	Portuguese 4	Portuguese IV	06164	G	1
16.0930	Portuguese 5	Portuguese V	06165	G	1
16.1321	Portuguese for Native Speakers 1	Portuguese for Native Speakers	06166	G	1
16.1322	Portuguese for Native Speakers 2	Portuguese for Native Speakers	06166	G	2

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
16.1323	Portuguese for Native Speakers 3	Portuguese for Native Speakers	06166	G	3
16.1324	Portuguese for Native Speakers 4	Portuguese for Native Speakers	06166	G	4
16.0900	Italic Languages, Other	Romance/Italic Language—Other	06199	G	1
16.0942	Spanish, Commercial; Spanish, Job Related	Romance/Italic Language—Other	06199	G	1
16.0511	German 7; German for Survival - Middle School Level	German	06200	G	1
16.0512	German 8 - Middle School Level	German	06200	G	1
16.0513	German 1; German 9	German I	06201	G	1
16.0514	German 2; German 10	German II	06202	G	1
16.0515	German 3; German 11	German III	06203	G	1
16.0516	German 4; German 12	German IV	06204	G	1
16.0517	German 5	German V	06205	G	1
16.0518	German Field-Based Experience; German, Reading and Conference	German Field Experience	06207	G	1
16.0544	IB German 4	IB Language A (non-English)—German	06211	E	1
16.0545	IB German 5	IB Language B—German	06211	E	2
16.0546	AP German Language	AP German Language and Culture	06212	E	1
16.0501	Dutch 1	Germanic Language I	06241	G	1
16.0521	Norwegian 1; Norse 1	Germanic Language I	06241	G	1
16.0531	Swedish 1	Germanic Language I	06241	G	1
16.0541	Yiddish 1	Germanic Language I	06241	G	1
16.0502	Dutch 2	Germanic Language II	06242	G	1
16.0522	Norwegian 2; Norse 2	Germanic Language II	06242	G	1
16.0532	Swedish 2	Germanic Language II	06242	G	1
16.0542	Yiddish 2	Germanic Language II	06242	G	1
16.0503	Dutch 3	Germanic Language III	06243	G	1
16.0533	Swedish 3	Germanic Language III	06243	G	1
16.0543	Yiddish 3	Germanic Language III	06243	G	1
16.0500	Germanic Languages, Other	Germanic Language—Other	06259	G	1
16.0621	Modern Greek	Greek I	06281	G	1
16.0622	Modern Greek 2	Greek II	06282	G	1
16.0623	Modern Greek 3	Greek III	06283	G	1
16.0624	Modern Greek 4	Greek IV	06284	G	1
16.0600	Greek, Other	Greek—Other	06299	G	1
16.0611	Modern Greek for Survival	Greek—Other	06299	G	1
16.0920	Latin 1; Latin 9; Latin Graffiti for Anybody	Latin I	06301	G	1
16.0921	Latin 2	Latin II	06302	G	1
16.0922	Latin 3	Latin III	06303	G	1
16.0923	Latin 4	Latin IV	06304	G	1
16.0924	Latin 5	Latin V	06305	G	1
16.0953	IB Latin 4	IB Classical Languages—Latin	06311	E	1
16.0954	IB Latin 5	IB Classical Languages—Latin	06311	E	2
16.0947	AP Latin Literature; AP Latin	AP Latin (Virgil, Catullus and Horace)	06313	E	1
16.0948	AP Latin: Vergil	AP Latin (Virgil, Catullus and Horace)	06313	E	1
16.0631	Classical Greek 1	Classical Greek I	06321	G	1
16.0632	Classical Greek 2	Classical Greek II	06322	G	1
16.0633	Classical Greek 3	Classical Greek III	06323	G	1
16.0634	Classical Greek 4	Classical Greek IV	06324	G	1
16.0321	Mandarin 1	Chinese I	06401	G	1
16.0322	Mandarin 2	Chinese II	06402	G	1
16.0323	Mandarin 3	Chinese III	06403	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
16.0324	Mandarin 4	Chinese IV	06404	G	1
16.0325	Mandarin 5	Chinese V	06405	G	1
16.1351	Chinese for Native Speakers 1	Chinese for Native Speakers	06406	G	1
16.1352	Chinese for Native Speakers 2	Chinese for Native Speakers	06406	G	2
16.1353	Chinese for Native Speakers 3	Chinese for Native Speakers	06406	G	3
16.1354	Chinese for Native Speakers 4	Chinese for Native Speakers	06406	G	4
16.0326	IB Chinese 4	IB Language B—Chinese	06411	E	1
16.0327	IB Chinese 5	IB Language B—Chinese	06411	E	2
16.0328	AP Chinese Language and Culture	AP Chinese Language and Culture	06412	E	1
16.0331	Japanese 1	Japanese I	06421	G	1
16.0332	Japanese 2	Japanese II	06422	G	1
16.0333	Japanese 3	Japanese III	06423	G	1
16.0334	Japanese 4	Japanese IV	06424	G	1
16.0335	Japanese 5	Japanese V	06425	G	1
16.1341	Japanese for Native Speakers 1	Japanese for Native Speakers	06426	G	1
16.1342	Japanese for Native Speakers 2	Japanese for Native Speakers	06426	G	2
16.1343	Japanese for Native Speakers 3	Japanese for Native Speakers	06426	G	3
16.1344	Japanese for Native Speakers 4	Japanese for Native Speakers	06426	G	4
16.0337	IB Japanese 4	IB Language B—Japanese	06431	E	1
16.0338	IB Japanese 5	IB Language B—Japanese	06431	E	2
16.0339	AP Japanese Language and Culture	AP Japanese Language and Culture	06432	E	1
16.0351	Korean 1	Korean I	06441	G	1
16.0352	Korean 2	Korean II	06442	G	1
16.0353	Korean 3	Korean III	06443	G	1
16.0354	Korean 4	Korean IV	06444	G	1
16.0355	Korean 5	Korean V	06445	G	1
16.0311	Cantonese 1	East Asian Language I	06481	G	1
16.0312	Cantonese 2	East Asian Language II	06482	G	1
16.0313	Cantonese 3	East Asian Language III	06483	G	1
16.0314	Cantonese 4	East Asian Language IV	06484	G	1
16.0300	Asiatic Languages, Other	East Asian Language—Other	06499	G	1
16.0421	Russian 1	Russian I	06601	G	1
16.0422	Russian 2	Russian II	06602	G	1
16.0423	Russian 3	Russian III	06603	G	1
16.0424	Russian 4	Russian IV	06604	G	1
16.0425	Russian 5	Russian V	06605	G	1
16.0428	AP Russian Language and Culture	Russian Conversation and Culture	06608	E	1
16.0426	Russian 6	Russian Literature	06609	G	1
16.0455	IB Russian 4	IB Language—Russian	06611	E	1
16.0456	IB Russian 5	IB Language—Russian	06611	E	2
16.0411	Ukrainian 1	Balto-Slavic Language I	06641	G	1
16.0431	Czech 1	Balto-Slavic Language I	06641	G	1
16.0441	Polish 1	Balto-Slavic Language I	06641	G	1
16.0432	Czech 2	Balto-Slavic Language II	06642	G	1
16.0433	Czech 3	Balto-Slavic Language III	06642	G	1
16.0442	Polish 2	Balto-Slavic Language II	06642	G	1
16.0443	Polish 3	Balto-Slavic Language III	06643	G	1
16.0444	Polish 4	Balto-Slavic Language IV	06644	G	1
16.0400	Balto-Slavic Languages, Other	Balto-Slavic Language—Other	06659	G	1
16.0451	Finnish 1	Turkic/Ural-Altaic Language I	06661	G	1
16.1211	Turkish 1	Turkic/Ural-Altaic Language I	06661	G	1
16.0452	Finnish 2	Turkic/Ural-Altaic Language II	06662	G	1
16.1212	Turkish 2	Turkic/Ural-Altaic Language II	06662	G	1
16.0453	Finnish 3	Turkic/Ural-Altaic Language III	06663	G	1

See notes at end of table.



**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
16.0454	Finnish 4	Turkic/Ural-Altaic Language IV	06664	G	1
16.1200	Indo-European Languages, Other	Turkic/Ural-Altaic Language—Other	06679	G	1
16.0800	Iranian Languages, Other	Iranian/Persian Language—Other	06699	G	1
16.1111	Hebrew 1	Hebrew I	06701	G	1
16.1112	Hebrew 2	Hebrew II	06702	G	1
16.1113	Hebrew 3	Hebrew III	06703	G	1
16.1114	Hebrew 4	Hebrew IV	06704	G	1
16.1115	Arabic 1	Arabic I	06721	G	1
16.1116	Arabic 2	Arabic II	06722	G	1
16.1117	Arabic 3	Arabic III	06723	G	1
16.1118	Arabic 4	Arabic IV	06724	G	1
16.1100	Semitic Languages, Other	Semitic and Near/Middle Eastern Languages—Other	06759	G	1
16.0211	Swahili 1	Swahili I	06761	G	1
16.0212	Swahili 2	Swahili II	06762	G	1
16.0221	Amharic 1 (Ethiopian)	Non-Semitic African Language I	06781	G	1
16.0222	Amharic 2 (Ethiopian)	Non-Semitic African Language II	06782	G	1
16.0200	African (Non-Semitic) Languages, Other	Non-Semitic African Language—Other	06799	G	1
09.0811	Sign Language 1; Signing 1	American Sign Language I	06801	G	1
09.0812	Sign Language 2; Signing 2	American Sign Language II	06802	G	2
09.0813	Sign Language 3; Advanced Sign Language	American Sign Language III	06803	G	3
16.1000	Native American Languages, Other	American Indian Language—Other	06839	G	1
16.0700	Indic Languages, Other	Indic Language—Other	06859	G	1
16.0341	Hawaiian 1	Malayo-Polynesian Language I	06861	G	1
16.0342	Hawaiian 2	Malayo-Polynesian Language II	06862	G	1
16.0343	Hawaiian 3	Malayo-Polynesian Language III	06863	G	1
16.0344	Hawaiian 4	Malayo-Polynesian Language IV	06864	G	1
16.0345	Hawaiian Language and Culture	Malayo-Polynesian Language Conversation and Culture	06868	G	1
16.0336	Foreign Language Contract, Japanese; Independent Study, Japanese	Foreign Language and Literature—Independent Study	06997	G	1
16.0427	Foreign Language Contract, Russian; Independent Study, Russian	Foreign Language and Literature—Independent Study	06997	G	1
16.0519	Foreign Language Contract, German; Independent Study, German	Foreign Language and Literature—Independent Study	06997	G	1
16.0909	Foreign Language Contract, French; Independent Study, French	Foreign Language and Literature—Independent Study	06997	G	1
16.0919	Foreign Language Contract, Italian; Independent Study, Italian	Foreign Language and Literature—Independent Study	06997	G	1
16.0925	Foreign Language Contract, Latin; Independent Study, Latin	Foreign Language and Literature—Independent Study	06997	G	1
16.0939	Foreign Language Contract, Spanish; Independent Study, Spanish	Foreign Language and Literature—Independent Study	06997	G	1
16.1119	Foreign Language Contract - Arabic; Independent Study, Arabic	Foreign Language and Literature—Independent Study	06997	G	1
16.0100	Foreign Languages, Multiple Emphasis, Other	Foreign Language and Literature—Other	06999	G	1
16.0111	Foreign Language, Exploratory	Foreign Language and Literature—Other	06999	G	1
16.1300	Non-English Languages for Native Speaker, Other	Foreign Language and Literature—Other	06999	G	1
16.9900	Foreign Languages, Other	Foreign Language and Literature—Other	06999	G	1
38.0201	Catholicism, Foundations; Ritual and Symbol	Religious Foundations	07001	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
38.0212	Religion, Introduction; Philosophy of Religion	Religious Foundations	07001	G	1
38.0214	Judaism, Foundations	Religious Foundations	07001	G	1
38.0215	Protestantism, Foundations	Religious Foundations	07001	G	1
38.0217	Islam and the Koran	Religious Foundations	07001	G	1
38.0206	Comparative Religion; Comparative Religion and Philosophical Systems	Comparative Religion	07002	G	1
38.0216	Religious Movements in America	Comparative Religions	07002	G	1
39.0611	Theological Studies	Comparative Religion	07002	G	1
38.0208	Eastern Religious Thought; Religions of the East from Hinduism to Zen	Eastern Religions	07003	G	1
38.0210	Western Religions; Religious Development In the West	Western Religions	07004	G	1
38.0203	Scripture; Testaments, Old and New; Christian and Hebrew Scriptures; Bible Studies	Scriptures	07005	G	1
39.0100	Biblical Languages, Other	Scriptures	07005	G	1
39.0200	Bible Studies, Other	Scriptures	07005	G	1
38.0202	Who Is Jesus; Person of Jesus	Christology	07009	G	1
38.0207	Sacraments	Liturgy and Prayer	07011	G	1
38.0213	Prayer and Liturgy	Liturgy and Prayer	07011	G	1
38.0204	Moral Issues, Social and Individual; Moral Thought and Decision Making	Religious Ethics and Morality	07013	G	1
38.0205	Marriage, Life Choices in Christian Living; Christian Sexuality and Marriage; Alternative Christian Lifestyles	Faith and Lifestyle	07015	G	1
38.0200	Religion, Other	Religious Education and Theology—Other	07999	G	1
38.0209	Religion and Psychology	Religious Education and Theology—Other	07999	G	1
38.9900	Philosophy and Religion, Other	Religious Education and Theology—Other	07999	G	1
39.0300	Missionary Studies, Other	Religious Education and Theology—Other	07999	G	1
39.0400	Religious Education, Other	Religious Education and Theology—Other	07999	G	1
39.0500	Religious Music, Other	Religious Education and Theology—Other	07999	G	1
39.0600	Theological Studies, Other	Religious Education and Theology—Other	07999	G	1
39.9900	Theology, Other	Religious Education and Theology—Other	07999	G	1
34.0113	Physical and Health Education 9; Physical Education 9; Health Safety and Physical Education 9	Physical Education	08001	G	1
34.0114	Physical Education 10; Health Safety and Physical Education 10	Physical Education	08001	G	2
34.0115	Physical Education 11; Health Safety and Physical Education 11	Physical Education	08001	G	3
34.0116	Physical Education 12; Health Safety and Physical Education 12	Physical Education	08001	G	4
34.0123	Physical Education - MPR 1	Physical Education	08001	G	1
34.0124	Physical Education - MPR 3	Physical Education	08001	G	1
36.0121	Sports, Team	Team Sports	08002	G	1
36.0111	Sports, Individual	Individual/Dual Sports	08003	G	1
36.0100	Leisure and Recreational Activities, Other	Recreation Sports	08004	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
36.0191	Recreational Activities; A Vocational Experience	Recreation Sports	08004	G	1
33.0121	Pep Squad; Cheerleading	Corps Movement	08006	G	1
36.0141	Drill Team; Band Physical Education; Color Guard	Corps Movement	08006	G	1
34.0121	Adaptive Physical Education (Multihandicapped)/(Nonregular program)	Adapted Physical Education	08007	G	1
34.0129	Adaptive Physical Education (Multihandicapped)/(Nonregular program), not for credit	Adapted Physical Education	08007	G	1
54.3201	Functional Leisure And Recreational Skills	Adapted Physical Education	08007	B	1
54.3209	Functional Leisure and Recreational Skills, not for credit	Adapted Physical Education	08007	B	1
36.0131	Gymnastics	Gymnastics	08008	G	1
36.0171	Conditioning and Athletics; Fitness; Figure Control; Weight Training and Body Development; Physical Training; Self Defense	Weight Training	08009	G	1
36.0161	Aquatics	Aquatics/Water Sports	08010	G	1
36.0151	Track and Field	Specific Sports Activities	08013	G	1
34.0111	Physical and Health Education 7; Physical Education 7 - Middle School Level	Physical Education (grade 7)	08037	G	1
34.0112	Physical and Health Education 8; Physical Education 8 - Middle School Level	Physical Education (grade 8)	08038	G	1
34.0122	Physical Education - Medically Excused	Physical Education—Other	08049	G	1
36.0192	Experiential Outdoor Education	Physical Education—Other	08049	G	1
34.0131	Health 7; Health Science 7 - Middle School Level	Health Education	08051	G	1
34.0132	Health 8; Health Science 8 - Middle School Level	Health Education	08051	G	1
34.0133	Health 9; Health Science 9	Health Education	08051	G	1
34.0134	Health 10; Health Science 10	Health Education	08051	G	2
34.0135	Health 11; Health Science 11	Health Education	08051	G	3
34.0136	Health 12; Health Science 12	Health Education	08051	G	4
54.3301	Functional Health - Middle School Level	Health Education	08051	B	1
54.3302	Functional Health - High School Level	Health Education	08051	B	1
54.3309	Functional Health, not for credit	Health Education	08051	B	1
17.0421	Community Health	Community Health	08053	G	1
34.0138	Modern Medical Issues	Community Health	08053	G	1
52.0109	Adaptive Health Education EMH	Special Needs Health Education	08054	G	1
56.5001	Resource Health	Special Needs Health Education	08054	B	1
34.0171	Life Saving	Safety and First Aid	08055	G	1
34.0181	Safety	Safety and First Aid	08055	G	1
35.0161	Wellness Life Skills	Health and Life Management	08057	G	1
34.0141	Drugs Alcohol and Tobacco	Substance Abuse Prevention	08058	G	1
34.0137	State Requirements	Health Education—Other	08099	G	1
34.0191	Sex Education; Human Sexuality and Reproduction	Health Education—Other	08099	G	1
34.0151	Driver Education, Classroom; Traffic Safety	Drivers' Education—Classroom Only	08151	G	1
52.0108	Adaptive Drivers Education EMH	Drivers' Education—Classroom Only	08151	G	1
34.0152	Driver Education, Practice	Drivers' Education—Classroom and Laboratory	08152	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
34.0161	Physical Education Leadership Training; Gym Aide	Physical, Health, and Safety Education—Aide	08995	G	1
34.0100	Health-Related Activities, Other	Physical, Health, and Safety Education—Other	08999	G	1
36.0181	Motorcycle Operation	Physical, Health, and Safety Education—Other	08999	G	1
28.0501	Military Drill Team	ROTC Drill	09003	G	1
28.0311	Army Leadership Development, Introduction; Army ROTC 1	Army Junior ROTC I	09051	G	1
28.0312	Army Intermediate Leadership Development; Army ROTC 2	Army Junior ROTC II	09052	G	1
28.0313	Army Applied Leadership Development; Army ROTC 3	Army Junior ROTC III	09053	G	1
28.0314	Army Advanced Leadership Development; Army ROTC 4	Army Junior ROTC IV	09054	G	1
28.0411	Naval Science 1	Naval Junior ROTC I	09101	G	1
28.0412	Naval Science 2	Naval Junior ROTC II	09102	G	1
28.0413	Naval Science 3	Naval Junior ROTC III	09103	G	1
28.0414	Naval Science 4	Naval Junior ROTC IV	09104	G	1
28.0111	Aerospace Education; Air Science 1	Air Force Junior ROTC I	09151	G	1
28.0112	Aerospace Education 2; Air Science 2	Air Force Junior ROTC II	09152	G	2
28.0113	Aerospace Education 3; Air Science 3	Air Force Junior ROTC III	09153	G	3
28.0114	Aerospace Education 4; Air Science 4	Air Force Junior ROTC IV	09154	G	4
28.0421	Marine Corps Leadership Education 1	Marine Corps Junior ROTC I	09201	G	1
28.0422	Marine Corps Leadership Education 2	Marine Corps Junior ROTC II	09202	G	1
28.0423	Marine Corps Leadership Education 3	Marine Corps Junior ROTC III	09203	G	1
28.0424	Marine Corps Leadership Education 4	Marine Corps Junior ROTC IV	09204	G	1
28.0100	Aerospace Science (Air Force), Other	Military Science—Other	09999	G	1
28.0121	Civil Air Patrol	Military Science—Other	09999	G	1
28.0200	Coast Guard Science, Other	Military Science—Other	09999	G	1
28.0300	Military Science (Army), Other	Military Science—Other	09999	G	1
28.0400	Naval Science (Navy, Marines), Other	Military Science—Other	09999	G	1
28.9900	Military Sciences, Other	Military Science—Other	09999	G	1
29.0100	Military Technologies, Other	Military Science—Other	09999	G	1
11.0111	Computer Appreciation; Computer Literacy; Computers, Introduction	Introduction to Computer Technology	10001	G	1
21.0127	Introduction to Technology; Technology Education	Technological Literacy	21051	G	1
11.0161	Desktop Computer Application Suites	Computer Applications	10004	G	1
07.0311	Computers In Business; Business Computer Concepts	Business Computer Applications	10005	G	1
07.0321	Business Data Processing 1	Business Computer Applications	10005	G	1
07.0322	Business Data Processing 2	Business Computer Applications	10005	G	2
10.0112	Telecommunications	Telecommunications	10006	G	1
11.0145	IB Information Technology in a Global Society I	IB Information Technology in a Global Society	10007	E	1
11.0146	IB Information Technology in a Global Society II	IB Information Technology in a Global Society	10007	E	2
11.0112	Introduction to Internet and the World Wide Web	Internet Skills	10009	G	1
11.0101	Introduction to Computers (High School Level)	Computer Literacy	10010	G	1
11.0300	Data Processing, Other	Data Systems/Processing	10054	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
11.0311	Data Processing, Introduction; Data Processing Systems and Procedures; Computer Concepts; Data Processing; Electronic Data Processing; Data Systems 1	Data Systems/Processing	10054	G	1
11.0312	Data Processing, Intermediate; Data Processing 2	Data Systems/Processing	10054	G	2
11.0313	Data Processing, Advanced; Data Processing, Internship	Data Systems/Processing	10054	G	3
06.1200	Management Information Systems, Other	Management Information Systems-Other	10099	G	1
11.0400	Information Sciences and Systems, Other	Management Information Systems	10099	G	1
11.0604	Network Administration/Management 1	Networking Systems	10102	G	1
11.0605	Network Administration/Management 2	Networking Systems	10102	G	2
11.0606	Network Administration/Management 3	Networking Systems	10102	G	3
11.0607	Network Administration/Management 4	Networking Systems	10102	G	4
15.1001	PC Operating Systems; PC Hardware; PC Repair; A+ Certification (Changed to 11.0604-11.0607 and 47.0191)	Networking Systems	10102	G	1
07.0331	Business Computer Programming 1; Business Computer Applications	Business Computer Programming	10151	G	1
07.0332	Business Computer Programming 2	Business Computer Programming	10151	G	2
11.0131	Computer Applications; Computer Sciences 1	Computer Programming	10152	G	1
11.0132	Computer Applications, Independent Study; Computer Sciences 2	Computer Programming	10152	G	2
11.0141	Computer Sciences 3	Computer Programming	10152	G	3
11.0211	Computer Programming 1	Computer Programming	10152	G	1
11.0212	Computer Programming 2	Computer Programming	10152	G	2
11.0213	Computer Programming 3	Computer Programming	10152	G	3
11.0274	Visual Basic	Visual Basic Programming	10153	G	1
11.0273	C++ Programming	C++ Programming	10154	G	1
11.0602	Java; Java Script	Java Programming	10155	G	1
11.0221	FORTTRAN, Introduction	Computer Programming—Other Language	10156	G	1
11.0231	PASCAL, Introduction; PASCAL 1	Computer Programming—Other Language	10156	G	1
11.0232	Advanced PASCAL; PASCAL 2	Computer Programming—Other Language	10156	G	2
11.0241	BASIC, Introduction; BASIC 1	Computer Programming—Other Language	10156	G	1
11.0242	Advanced BASIC; BASIC 2	Computer Programming—Other Language	10156	G	2
11.0251	COBOL, Introduction; COBOL 1	Computer Programming—Other Language	10156	G	1
11.0252	Advanced COBOL; COBOL 2	Computer Programming—Other Language	10156	G	2
11.0261	LOGO, Introduction	Computer Programming—Other Language	10156	G	1
11.0271	RPG Programming, Introduction	Computer Programming—Other Language	10156	G	1
11.0272	C Programming	Computer Programming—Other Language	10156	G	1
11.0275	Oracle Programming	Computer Programming—Other Language	10156	G	1
11.0143	AP Computer Science A	AP Computer Science A	10157	E	1
11.0144	AP Computer Science AB	AP Computer Science AB	10158	E	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
11.0142	IB Computer Science I	IB Computer Studies	10159	E	1
11.0147	IB Computer Science II	IB Computer Studies	10159	E	2
11.0151	Artificial Intelligence	Particular Topics in Computer Programming	10160	G	1
11.0321	Computer Programming - Cooperative Education	Computer Programming—Workplace Experience	10198	G	1
11.0200	Computer Programming, Other	Computer Programming—Other	10199	G	1
11.0601	HTML	Web Page Design	10201	G	1
11.0603	Web Site Design, Development	Web Page Design	10201	G	1
11.0152	Multimedia Computer Applications	Computer Graphics	10202	G	1
47.0191	Computer Repair and Maintenance	Computer Maintenance	10252	G	1
55.9211	Computer Repair and Maintenance	Computer Maintenance	10252	G	1
33.0114	Computer Laboratory Assistant	Information Technology—Aide	10995	G	1
11.0100	Computer and Information Sciences, Other General	Information Technology—Other	10999	G	1
11.0500	Systems Analysis, Other	Information Technology—Other	10999	G	1
11.9900	Computer and Information Sciences, Other	Information Technology-Other	10999	G	1
09.0111	Mass Media; Channels of Communication; Media Communications; Media and Persuasion; Media in Society; Media and Critical Thinking	Introduction to Communication	11001	G	1
10.0111	World of Communications	Introduction to Communication	11001	G	1
10.0100	Communication Technologies, Other	Communication Technology	11002	G	1
09.0100	Communications, Other General	Particular Topics in Communication	11003	G	1
09.0121	Intercultural Communication	Particular Topics in Communication	11003	G	1
09.0300	Communications Research, Other	Particular Topics in Communication	11003	G	1
09.0500	Public Relations, Other	Particular Topics in Communication	11003	G	1
09.0821	Braille Communications	Particular Topics in Communication	11003	G	1
09.0831	Cryptography	Particular Topics in Communication	11003	G	1
09.9900	Communications, Other	Communication—Other	11049	G	1
10.0201	IB Communications	Communication—Other	11049	E	1
09.0612	Careers in Radio/Television Broadcasting	Audio/Visual Production	11051	G	1
09.0711	Broadcasting, Introduction	Audio/Visual Production	11051	G	1
10.0121	Communications Media Production; Audio Visuals; Media Production Aide	Audio/Visual Production	11051	G	1
10.0171	Television Production 1; Television Occupations; Videotape Production	Audio/Visual Production	11051	G	1
10.0172	Television Production 2	Audio/Visual Production	11051	G	2
10.0173	Television Production 3	Audio/Visual Production	11051	G	3
10.0174	Television Production 4	Audio/Visual Production	11051	G	4
10.0191	Radio/Television Production 1	Audio/Visual Production	11051	G	1
10.0192	Radio/Television Production 2	Audio/Visual Production	11051	G	2
10.0132	Photography, Advanced Commercial	Commercial Photography	11052	G	1
10.0151	Film Making and Production 1; Cinematography; Filming and Staging; Film Technology	Video	11055	G	1
10.0152	Film Making and Production 2	Video	11055	G	2
09.0721	Television and Taste; Radio and Television Appreciation	Particular Topics in AV Technology and Film	11056	G	1
10.0181	Cable Television	Particular Topics in AV Technology and Film	11056	G	1
09.0700	Radio/Television, Other General	Audio/Video Technology and Film—Other	11099	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
09.0411	Journalism 1; Newspaper Production 1; Newswriting 1; Writing for Publication	Journalism	11101	G	1
09.0412	Journalism 2; Newspaper Production 2; Journalism Lab; Newswriting 2	Journalism	11101	G	2
09.0413	Journalism 3; Newspaper Production 3	Journalism	11101	G	3
10.0131	Photography, Commercial; Photojournalism	Photojournalism	11102	G	1
09.0600	Radio/Television News Broadcast, Other	Broadcasting Technology	11103	G	1
09.0611	Broadcast Journalism; Television News	Broadcasting Technology	11103	G	1
10.0141	Broadcast Management 1	Broadcasting Technology	11103	G	1
10.0142	Broadcast Management 2	Broadcasting Technology	11103	G	2
09.0441	Yearbook Production 1; Publications 1	Publication Production	11104	G	1
09.0442	Yearbook Production 2; Publications 2	Publication Production	11104	G	2
09.0431	Literary Magazine	Particular Topics in Journalism and Broadcasting	11105	G	1
10.0161	Radio Production	Radio Production	11107	G	1
09.0421	Journalism Investigations	Journalism—Independent Study	11147	G	1
10.0143	Broadcasting Practicum	Journalism and Broadcasting—Independent Study	11147	G	1
09.0400	Journalism (Mass Communications), Other	Journalism and Broadcasting—Other	11149	G	1
48.0271	Desktop Publishing	Desktop Publishing	11152	G	1
48.0281	Digital Design 1	Digital Media Design and Production	11153	G	1
48.0282	Digital Design 2	Digital Media Design and Production	11153	G	2
48.0283	Digital Design 3	Digital Media Design and Production	11153	G	3
48.0211	Commercial Art 1; Advertising Design	Commercial Graphic Design	11154	G	1
48.0212	Commercial Art 2; Advertising and Illustration, Advanced	Commercial Graphic Design	11154	G	2
48.0214	Commercial Art 3; Advanced Commercial Art	Commercial Graphic Design	11154	G	3
48.0221	Graphic Arts 1; Printing, Introduction; Production Printing; Graphic Communications 1	Graphic Technology	11155	G	1
48.0222	Graphic Arts 2; Printing, Advanced; Graphics Communications 2	Graphic Technology	11155	G	2
48.0223	Graphic Arts 3; Printing Production, Cooperative	Graphic Technology	11155	G	3
48.0224	Graphic Arts 4	Graphic Technology	11155	G	4
48.0200	Graphic and Printing Communications, Other	Particular Topics in Printing Technology and Production	11159	G	1
48.0231	Sign Painting 1; Lettering	Particular Topics in Printing Technology and Production	11159	G	1
48.0232	Sign Painting 2	Particular Topics in Printing Technology and Production	11159	G	2
48.0233	Sign Painting 3	Particular Topics in Printing Technology and Production	11159	G	3
48.0241	Bindery	Particular Topics in Printing Technology and Production	11159	G	1
48.0251	Electronic Composition	Particular Topics in Printing Technology and Production	11159	G	1
48.0261	Copy Editing	Particular Topics in Printing Technology and Production	11159	G	1
50.0721	Silk Screen	Particular Topics in Printing Technology and Production	11159	G	1
48.0213	Commercial Art, Cooperative	Printing Technology—Workplace Experience	11198	G	1

See notes at end of table.

**Table A-1. CASC/SCED Crosswalk—Continued**

<b>CASC Code</b>	<b>CASC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
55.7111	Graphic And Printing Communications 1	Printing Technology—Other	11199	G	1
55.7119	Graphic And Printing Communications 1, not for credit	Printing Technology—Other	11199	G	1
55.7121	Graphic And Printing Communications 2	Printing Technology—Other	11199	G	2
55.7129	Graphic And Printing Communications 2, not for credit	Printing Technology—Other	11199	G	2
07.0731	Office Procedures 1; Office Practice 1; Office Specialist 1; Automated Office 1; Office Skills, Integrated; Clerk Typist; Office Technology 1; Business Careers 1; Office Services 1; Clerk Typist 1	Office Procedures-Comprehensive Office Services	12002	G	1
07.0732	Office Procedures 2; Office Practice 2; Office Career Occupations; Automated Office 2; Office Careers 2; Office Technology 2; Office Specialist 2; Clerk Typist 2	Office Procedures-Comprehensive Office Services	12002	G	2
07.0161	Office Machines; Business Machines; Adding and Calculating Machines	Office and Administrative Technologies	12003	G	1
07.0162	Office Machines, Vocational	Office and Administrative Technologies	12003	G	1
55.2111	Office Machines 1	Office and Administrative Technologies	12003	G	1
55.2121	Office Machines 2	Office and Administrative Technologies	12003	G	2
07.0631	Secretarial Administration 1; Secretarial Practice; Secretarial Procedures; Secretarial Office Practice; Secretarial Typewriting, Integrated; Secretarial Skills, Integrated	Office Services	12004	G	1
07.0632	Secretarial Administration 2	Office Services	12004	G	2
07.0733	Simulated Office; Model Office; Office Practice, Advanced; Business Experience, Simulated; Business Careers 3; Office Pool; Office Services, Advanced	Office Services	12004	G	1
55.2011	General Office Practice 1	Office Services	12004	G	1
55.2019	General Office Practice 1, not for credit	Office Services	12004	G	1
55.2021	General Office Practice 2	Office Services	12004	G	2
55.2031	General Office Practice 3	Office Services	12004	G	3
07.0361	Keyboarding	Keyboarding	12005	G	1
07.0700	Typing, General Office, and Related Programs, Other	Keyboarding	12005	G	1
07.0711	Typewriting 1; Typewriting, Beginning; Typewriting, Business	Keyboarding	12005	G	1
07.0712	Typewriting 2; Typewriting, Advanced	Keyboarding	12005	G	2
07.0713	Typewriting 3; Typewriting, Executive; Typewriting, Career	Keyboarding	12005	G	3
07.0721	Typewriting, Personal; Word Processing, Personal	Keyboarding	12005	G	1
07.0641	Word Processing 1	Word Processing	12006	G	1
07.0642	Word Processing 2	Word Processing	12006	G	2
07.0643	Word Processing 3; Advanced Word Processing Applications	Word Processing	12006	G	3
07.0111	Bookkeeping 1; Bookkeeping, Beginning	Recordkeeping	12007	G	1
07.0112	Bookkeeping 2; Bookkeeping, Advanced	Recordkeeping	12007	G	2

See notes at end of table.



**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
07.0151	Recordkeeping 1; Recordkeeping, Clerical	Recordkeeping	12007	G	1
07.0152	Recordkeeping 2; Recordkeeping Techniques, Specialized	Recordkeeping	12007	G	2
07.0153	Personal Recordkeeping; Home Finance	Recordkeeping	12007	G	1
32.0101	Recordkeeping, Personal (Changed to 07.0153)	Recordkeeping	12007	G	1
07.0231	Bank Proof Operator	Particular Topics in Administration	12008	G	1
07.0241	Bank Data Entry Occupations	Particular Topics in Administration	12008	G	1
07.0300	Business Data Processing and Related Programs, Other	Particular Topics in Administration	12008	G	1
07.0341	Key Punch Operator	Particular Topics in Administration	12008	G	1
07.0351	Data Entry Operator 1; Computer Operator	Particular Topics in Administration	12008	G	1
07.0352	Data Entry Operator 2	Particular Topics in Administration	12008	G	2
07.0371	Peripheral Computer Operator	Particular Topics in Administration	12008	G	1
07.0400	Office Supervision and Management, Other	Particular Topics in Administration	12008	G	1
07.0500	Personnel and Training Programs, Other	Particular Topics in Administration	12008	G	1
07.0600	Secretarial and Related Programs, Other	Particular Topics in Administration	12008	G	1
07.0611	Shorthand 1; Stenography 1; Shorthand, Beginning	Particular Topics in Administration	12008	G	1
07.0612	Shorthand 2; Stenography 2; Stenography, Advanced; Shorthand, Advanced	Particular Topics in Administration	12008	G	2
07.0613	Speed Writing; Shorthand for College; Notetaking; College Notehand	Particular Topics in Administration	12008	G	1
07.0621	Transcription; Dictation and Transcription; Transcription, Machine; Touch Shorthand; Machine Shorthand	Particular Topics in Administration	12008	G	1
07.0651	Reprographics	Particular Topics in Administration	12008	G	1
07.0661	Legal Office Procedures; Legal Secretary	Particular Topics in Administration	12008	G	1
07.0662	Court Reporter	Particular Topics in Administration	12008	G	1
32.0116	Speed Writing (Changed to 07.0613)	Particular Topics in Administration	12008	G	1
07.0411	Business English 1; Business Communications	Business Communications	12009	G	1
07.0412	Business English 2	Business Communications	12009	G	2
07.0413	Business English 3	Business Communications	12009	G	3
07.0414	Business English 4	Business Communications	12009	G	4
07.0741	Office Education 1, Cooperative; Clerical On The Job Training; Office Training, Vocational; Office Occupations Work Experience	Administrative-Workplace Experience	12048	G	2
07.0742	Office Education 2, Cooperative	Administration—Work Experience	12048	G	1
55.2211	Business Work Study 1	Administration—Work Experience	12048	G	1
55.2221	Business Work Study 2	Administration—Work Experience	12048	G	2
55.2311	Business Work Experience 1	Administration—Work Experience	12048	G	1
55.2321	Business Work Experience 2	Administration—Work Experience	12048	G	2
07.9900	Business and Office, Other	Administration—Other	12049	G	1
06.0111	Business Introduction; Business, General; Business Survey; Business, Basic; Business Dynamics; Business Careers Overview	Introductory Business	12051	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
06.0100	Business and Management, Other General	Business Management Management-other	12052	G	1
06.0211	Accounting/Business Management Careers - Integrated Curriculum	Business Management	12052	G	1
06.0411	Business Organization and Management; Business Management; Business Leadership; Junior Executive Training	Business Management	12052	G	1
08.0300	Entrepreneurship, Other	Entrepreneurship	12053	G	1
08.0311	Starting Your Own Business	Entrepreneurship	12053	G	1
06.0121	Business Law	Business Law	12054	G	1
08.0321	Junior Achievement; Student - Operated Company	Business Principles and Management	12055	G	1
06.0900	International Business Management, Other	International Business and Marketing	12056	G	1
06.1100	Labor Industrial Relations, Other	Human Resources and Labor Relations	12057	G	1
06.0600	Human Resources Development, Other	Human Resources Management	12058	G	1
06.1600	Personnel Management, Other	Human Resources Management	12058	G	1
06.0151	IB Business and Management	IB Business and Management	12059	E	
06.0131	Business, Independent Study	Management—Independent Study	12097	G	1
06.0141	Business Education, Cooperative	Management—Independent Study	12098	G	1
06.0421	Virtual Business/Enterprise	Management—Other	12099	G	1
06.0700	Institutional Management, Other	Management—Other	12099	G	1
06.1300	Management Science, Other	Management—Other	12099	G	1
06.1500	Organizational Behavior, Other	Management—Other	12099	G	1
06.1700	Real Estate, Other	Management—Other	12099	G	1
06.1800	Small Business Management and Ownership, Other	Management—Other	12099	G	1
06.1811	Small Business Management	Management—Other	12099	G	1
06.1900	Taxation, Other	Finance—Other	12149	G	1
06.2000	Trade and Industrial Supervision and Management, Other	Management—Other	12099	G	1
06.9900	Business and Management, Other	Management—Other	12099	G	1
08.0612	Grocery Management; Wholesale/Retail Grocery Operation	Management—Other	12099	G	1
06.0300	Banking and Finance, Other	Banking and Finance	12101	G	1
07.0200	Banking and Related Financial Programs, Other	Banking and Finance	12101	G	1
07.0201	Banking and Financial Careers	Banking and Finance	12101	G	1
06.0311	Financial Careers	Finance	12103	G	1
07.0121	Accounting 1; Clerical Accounting 1	Accounting	12104	G	1
07.0122	Accounting 2; Accounting, Advanced; Accounting Careers; Clerical Accounting 2	Accounting	12104	G	2
07.0131	Accounting, College	Accounting	12104	C	1
07.0141	Bookkeeping and Accounting 1	Accounting	12104	G	1
07.0142	Bookkeeping and Accounting 2	Accounting	12104	G	2
06.0500	Business Economics, Other	Business Economics	12105	G	1
06.0511	Business Economics	Business Economics	12105	G	1
06.0800	Insurance and Risk Management, Other	Risk Management and Insurance	12106	G	1
06.0811	Insurance Careers	Risk Management and Insurance	12106	G	1
06.1000	Investments and Securities, Other	Securities and Investments	12107	G	1
06.1011	Investments and Taxation	Securities and Investments	12107	G	1
06.0200	Accounting, Other	Particular Topics in Accounting	12111	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
07.0100	Accounting, Bookkeeping, and Related Programs, Other	Particular Topics in Accounting	12111	G	1
07.0211	Bank Teller	Banking	12102	G	1
07.0251	Banking and Financial Careers - Cooperative Education	Finance—Workplace Experience	12148	G	1
06.0321	Real Estate Finance	Finance—Other	12149	G	1
06.0331	Consumer Lending	Finance—Other	12149	G	1
08.0100	Apparel and Accessories Marketing, Other	Marketing—Fashion	12153	G	1
08.0111	Fashion Merchandising	Marketing—Fashion	12153	G	1
08.0121	Fashion Design and Illustration	Marketing—Fashion	12153	G	1
06.1711	Real Estate Marketing	Marketing—Real Estate	12154	G	1
08.1200	Vehicles and Petroleum Marketing, Other	Marketing—Transportation	12155	G	1
08.1211	Auto Parts Merchandising	Marketing—Transportation	12155	G	1
08.0600	Food Marketing, Other	Marketing—Food/Beverage Industry	12156	G	1
08.0611	Food Marketing/Distribution - Overview	Marketing—Food/Beverage Industry	12156	G	1
08.1000	Insurance Marketing, Other	Marketing—Insurance	12157	G	1
08.0500	Floristry, Farm and Garden Supplies Marketing, Other	Marketing—Floristry	12158	G	1
08.0511	Floral Sales	Marketing—Floristry	12158	G	1
08.0200	Business and Personal Services Marketing, Other	Marketing—Other Specialization	12167	G	1
08.0900	Hospitality and Recreation Marketing, Other	Marketing—Hospitality/Tourism	12159	G	1
08.0921	Hospitality Sales 1	Marketing—Hospitality/Tourism	12159	G	1
08.0922	Hospitality Sales 2	Marketing—Hospitality/Tourism	12159	G	2
08.1100	Transportation and Travel Marketing, Other	Marketing—Hospitality/Tourism	12159	G	1
08.0711	Distributive Education 1; Sales and Marketing; Retailing and Merchandising; Distribution and Marketing; Distribution 1; Marketing and Distribution 1; Merchandising	Retail Marketing	12161	G	1
08.0712	Distributive Education 2; Distribution 2; Marketing and Distribution 2	Retail Marketing	12161	G	2
08.0713	Distributive Education 3	Retail Marketing	12161	G	3
08.0331	E-Commerce	Internet Marketing	12162	G	1
08.1300	Sports and Entertainment Marketing, Other	Sports and Entertainment Marketing	12163	G	1
09.0200	Advertising, Other	Principles of Advertising	12165	G	1
09.0211	Advertising	Principles of Advertising	12165	G	1
06.1400	Marketing Management and Research, Other	Marketing Management	12166	G	1
06.1411	Marketing Management and Decision Making; Marketing Studies; Merchandising and Sales Management	Marketing Management	12166	G	1
01.0511	Agricultural Supplies Marketing	Marketing—Other Specialization	12167	G	1
08.0400	Financial Services Marketing, Other	Marketing—Other Specialization	12167	G	1
08.0700	General Marketing, Other	Marketing—Other Specialization	12167	G	1
08.0800	Home and Office Products Marketing, Other	Marketing—Other Specialization	12167	G	1
08.0771	Distributive Education, Independent Study	Marketing—Independent Study	12197	G	1
08.0131	Fashion Merchandising - Cooperative Education 1	Marketing—Workplace Experience	12198	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
08.0132	Fashion Merchandising - Cooperative Education 2	Marketing—Workplace Experience	12198	G	2
08.0621	Food Marketing - Cooperative Education 1	Marketing—Workplace Experience	12198	G	1
08.0622	Food Marketing - Cooperative Education 2	Marketing—Workplace Experience	12198	G	2
08.0721	Distributive Education 1, Cooperative; Store Experience; Marketing Occupational Experience	Marketing—Workplace Experience	12198	G	1
08.0722	Distributive Education 2, Cooperative	Marketing—Workplace Experience	12198	G	2
08.0781	Telephone Service Representative	Marketing—Other	12199	G	1
08.0782	Telephone Directory Assistant	Marketing—Other	12199	G	1
08.9900	Marketing and Distribution, Other	Marketing—Other	12199	G	1
08.0741	Retail Learning Laboratory	Cashier/Checker Operations	12201	G	1
08.0751	Cashier Checker Training	Cashier/Checker Operations	12201	G	1
08.0731	Salesmanship	Principles of Selling	12202	G	1
08.0811	Computer Sales Representative	Sales—Other	12249	G	1
06.0400	Business Administration and Management, Other	Business and Marketing—Other	12999	G	1
21.0107	Industry and Technology	Exploration of Manufacturing Occupations	13001	G	1
21.0109	Industrial Occupations 1; World of Construction; Industrial Cooperative Training	Exploration of Manufacturing Occupations	13001	G	1
21.0110	Industrial Occupations 2; Industrial Cooperative Training, Advanced	Exploration of Manufacturing Occupations	13001	G	2
21.0108	Industrial Production; Manufacturing and Production	Manufacturing—Comprehensive	13002	G	1
21.0100	Industrial Arts, Other	Industrial Arts	13003	G	1
21.0101	Industrial Arts 7 - Middle School Level	Industrial Arts	13003	G	1
21.0102	Industrial Arts 8 - Middle School Level	Industrial Arts	13003	G	1
21.0103	Industrial Arts 1; Shop 1, Exploratory; Shop, General; Industrial Materials 1; Industrial Arts Orientation; Industrial Crafts 1	Industrial Arts	13003	G	1
21.0104	Industrial Arts 2; Shop 2, Exploratory; Industrial Materials 2; Industrial Crafts 2	Industrial Arts	13003	G	2
21.0105	Industrial Arts 3	Industrial Arts	13003	G	3
21.0106	Industrial Arts 4	Industrial Arts	13003	G	4
52.0107	Adaptive Foundry EMH	Industrial Arts	13003	G	1
55.5011	General Industrial Arts 1	Industrial Arts	13003	G	1
55.5019	General Industrial Arts 1, not for credit	Industrial Arts	13003	G	1
55.5021	General Industrial Arts 2	Industrial Arts	13003	G	2
55.5029	General Industrial Arts 2, not for credit	Industrial Arts	13003	G	2
55.5031	General Industrial Arts 3	Industrial Arts	13003	G	3
55.5039	General Industrial Arts 3, not for credit	Industrial Arts	13003	G	3
14.2011	Metallurgy/Powder Metal Basics	Metal Processing/Production	13055	G	1
48.0611	Plastics 1	Plastics Processing/Production	13056	G	1
48.0612	Plastics 2	Plastics Processing/Production	13056	G	2
15.0621	Chemical Manufacturing Technology	Particular Topics in Processing and Production	13058	G	1
48.0600	Precision Work, Assorted Materials, Other	Particular Topics in Processing and Production	13058	G	1
48.0621	Space Age Plastics	Particular Topics in Processing and Production	13058	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
55.7411	Precision Production Work Study 1	Processing/Production—Workplace Experience	13098	G	1
55.7419	Precision Production Work Study 1, not for credit	Processing/Production—Workplace Experience	13098	G	1
55.7421	Precision Production Work Study 2	Processing/Production—Workplace Experience	13098	G	2
55.7429	Precision Production Work Study 2, not for credit	Processing/Production—Workplace Experience	13098	G	2
55.7511	Precision Production Work Experience 1	Processing/Production—Workplace Experience	13098	G	1
55.7519	Precision Production Work Experience 1, not for credit	Processing/Production—Workplace Experience	13098	G	1
55.7521	Precision Production Work Experience 2	Processing/Production—Workplace Experience	13098	G	2
55.7529	Precision Production Work Experience 2, not for credit	Processing/Production—Workplace Experience	13098	G	2
48.9900	Precision Production, Other	Processing/Production—Other	13099	G	1
15.0611	Industrial Production Technology 1; Manufacturing Process Technology 1	Production Systems	13101	G	1
15.0612	Industrial Production Technology 2; Manufacturing Process Technology 2	Production Systems	13101	G	2
15.0400	Electromechanical Instrumentation and Maintenance Technologies, Other	Electro-Mechanical Systems	13102	G	1
15.0600	Industrial Production Technologies, Other	Product Development	13103	G	1
15.0601	Industrial Research and Development Product Creation/Improvement	Product Development	13103	G	1
48.0511	Metal 1; Metal Class; Metal Lab; Metalwork; Metal Trades; Machine Metals	Metalwork Occupations	13201	G	1
48.0512	Metal 2; Metalwork, Advanced	Metalworking	13202	G	2
48.0513	Metal 3	Metalworking	13202	G	3
48.0514	Metal 4	Metalworking	13202	G	4
21.0121	Machine Shop 1; Machine Lab; Industrial Machine	Machining	13203	G	1
21.0122	Machine Shop 2	Machining	13203	G	2
21.0123	Machine Shop 3	Machining	13203	G	3
21.0124	Machine Shop 4	Machining	13203	G	4
48.0531	Sheet Metal 1	Sheet Metal	13205	G	1
48.0532	Sheet Metal 2	Sheet Metal	13205	G	2
48.0521	Welding 1	Welding	13207	G	1
48.0522	Welding 2	Welding	13207	G	2
48.0523	Welding 3	Welding	13207	G	3
48.0541	Metal Restoration	Particular Topics in Metalwork	13209	G	1
48.0551	Foundry 1	Particular Topics in Metalwork	13209	G	1
48.0552	Foundry 2	Particular Topics in Metalwork	13209	G	2
48.0524	Welding - Cooperative Education	Metalwork—Workplace Experience	13248	G	1
48.0500	Precision Metal Work, Other	Metalwork—Other	13249	G	1
47.0111	Small Appliance Repair	Appliance Repair	13301	G	1
47.0121	Radio and TV Repair 1; Television Repair; Electronic Servicing	Appliance Repair	13301	G	1
47.0122	Radio and TV Repair 2	Appliance Repair	13301	G	2
47.0123	Radio and TV Repair 3	Appliance Repair	13301	G	3
47.0124	Telecommunications Technician	Appliance Repair	13301	G	1
47.0131	Appliance Repair 1; Major Appliance Repair	Appliance Repair	13301	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
47.0132	Appliance Repair 2; Appliance Repair, Advanced	Appliance Repair	13301	G	2
47.0141	Vending Machine Repair	Appliance Repair	13301	G	1
12.0531	Industrial Maintenance/Mechanics 1	Equipment Maintenance and Repair	13302	G	1
12.0532	Industrial Maintenance/Mechanics 2	Equipment Maintenance and Repair	13302	G	2
47.0151	Business Machine Repair; Office Machine Repair	Equipment Maintenance and Repair	13302	G	1
47.0181	Food Processing Machine Maintenance Technician/Repair	Equipment Maintenance and Repair	13302	G	1
47.0331	Industrial Maintenance Mechanics 1	Equipment Maintenance and Repair	13302	G	1
47.0332	Industrial Maintenance Mechanics 2	Equipment Maintenance and Repair	13302	G	2
47.0421	Instrument Maintenance and Repair	Equipment Maintenance and Repair	13302	G	1
47.0433	Watch and Clock Repair	Equipment Maintenance and Repair	13302	G	1
47.0434	Bicycle Repair	Equipment Maintenance and Repair	13302	G	1
47.0100	Electrical and Electronics Equipment Repair, Other	Repair—Other	13349	G	1
47.0400	Miscellaneous Mechanics and Repairers, Other	Repair—Other	13349	G	1
47.0411	Musical Instrument Repair	Repair—Other	13349	G	1
21.0125	Industrial Education Management Trainee	Manufacturing—Aide	13995	G	1
21.0126	Industrial Arts Research; Industrial Arts, Independent Study	Manufacturing—Independent Study	13997	G	1
21.0111	Industrial Cooperative Work Experience	Manufacturing—Workplace Experience	13998	G	1
21.0112	Industrial Cooperative Work Experience, Advanced	Manufacturing—Workplace Experience	13998	G	1
21.0190	Industrial Arts Rotation/Survey	Manufacturing—Other	13999	G	1
17.0611	Student Assessment of Child Health; Health Office	Exploration of Health Care Occupations	14001	G	1
55.3011	General Health Occupations 1	Exploration of Health Care Occupations	14001	G	1
55.3019	General Health Occupations 1, not for credit	Exploration of Health Care Occupations	14001	G	1
55.3021	General Health Occupations 2	Exploration of Health Care Occupations	14001	G	2
55.3029	General Health Occupations 2, not for credit	Exploration of Health Care Occupations	14001	G	2
55.3031	General Health Occupations 3	Exploration of Health Care Occupations	14001	G	3
55.3039	General Health Occupations 3, not for credit	Exploration of Health Care Occupations	14001	G	3
17.0511	Health Occupations 1; Health Careers; Medical Career Opportunities	Health Care Occupations—Comprehensive	14002	G	1
17.0521	Health Occupations 2; Health Occupations Training; Medical Careers Work Experience	Health Care Occupations—Comprehensive	14002	G	2
18.1801	Medical Ethics	Medical Law and Ethics	14003	G	1
17.0621	Nursing, Practical; Nursing, Introduction	Nursing	14051	G	1
17.0631	Nurse's Aide and Orderly; Patient Care Technician; Nurse's Assistant	Nursing	14051	G	1
17.0411	Home Health Aide	Home Health Care	14053	G	1
17.0111	Dental Assistant 1; Dental Office Assisting	Dental Science	14054	G	1
17.0112	Dental Assistant 2	Dental Science	14054	G	2
17.0211	First Aid; CPR and First Aid; Medical Emergencies; Emergency Medical Technician	Emergency Medical Technology	14055	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
17.0700	Ophthalmic Services, Other	Vision Care	14057	G	1
17.0711	Optical Services Assistant	Vision Care	14057	G	1
18.1200	Optometry, Other	Optometrics	14058	G	1
17.0800	Rehabilitation Services, Other	Physical Therapy	14060	G	1
17.0561	Sports Medicine	Sports Medicine	14062	G	1
17.0600	Nursing-Related Services, Other	Particular Topics in Therapeutic Services	14063	G	1
18.0100	Audiology and Speech Pathology, Other	Particular Topics in Therapeutic Services	14063	G	1
18.0200	Basic Clinical Health Sciences, Other	Particular Topics in Therapeutic Services	14063	G	1
18.0300	Chiropractic, Other	Particular Topics in Therapeutic Services	14063	G	1
18.0400	Dentistry, Other	Particular Topics in Therapeutic Services	14063	G	1
18.0500	Emergency/Disaster Science, Other	Particular Topics in Therapeutic Services	14063	G	1
18.1000	Medicine, Other	Particular Topics in Therapeutic Services	14063	G	1
18.1100	Nursing, Other	Particular Topics in Therapeutic Services	14063	G	1
18.1300	Osteopathic Medicine, Other	Particular Topics in Therapeutic Services	14063	G	1
18.1500	Podiatry, Other	Particular Topics in Therapeutic Services	14063	G	1
17.0121	Dental Assistant, Cooperative	Therapeutic Services—Workplace Experience	14098	G	1
17.0641	Nurse's Aide, Cooperative	Therapeutic Services—Workplace Experience	14098	G	1
17.0131	Dental Technology 1	Dental Laboratory Technology	14101	G	1
17.0132	Dental Technology 2	Dental Laboratory Technology	14101	G	2
17.0311	Laboratory Program 1; Health Technology	Medical Lab Technology	14102	G	1
17.0221	EKG Technician	EKG Technology	14103	G	1
17.0321	Chemical Technology 1; Chemistry, Qualitative; Chemistry Lab	Particular Topics in Diagnostic Services	14105	G	1
17.0322	Chemical Technology 2	Particular Topics in Diagnostic Services	14105	G	2
18.0900	Medical Laboratory, Other	Particular Topics in Diagnostic Services	14105	G	1
17.0312	Laboratory Program 2	Diagnostic Services—Workplace Experience	14148	G	2
17.0300	Medical Laboratory Technologies, Other	Diagnostic Services—Other	14149	G	1
17.0541	Medical Records Secretary	Medical/Clerical Assisting	14151	G	1
17.0551	Medical Assisting	Medical/Clerical Assisting	14151	G	1
07.0671	Medical Office Procedures; Medical Office Assisting; Medical Secretary	Medical Office Procedures	14153	G	1
07.0681	Legal/Medical Office Procedures	Medical Office Procedures	14153	G	1
17.0531	Medical Terminology	Medical Terminology	14154	G	1
17.0522	Central Service Technician	Central Service Technology	14201	G	1
30.0200	Clinical Pastoral Care, Other	Particular Topics in Health Support Services	14204	G	1
17.0581	Chemistry for Health Science; Medicinal Chemistry; Nursing Chemistry	Health Science	14251	G	1
18.2501	Bio-Medical Technology, General	Biotechnology	14252	G	1
18.2502	Biotechnology	Biotechnology	14252	G	1
41.0100	Biological Technologies, Other	Biotechnology	14252	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
18.1400	Pharmacy, Other	Pharmacology	14253	G	1
18.1411	Pharmacy Technician	Pharmacology	14253	G	1
18.0600	Epidemiology, Other	Particular Topics in Health Sciences	14254	G	1
18.0700	Health Sciences Administration, Other	Particular Topics in Health Sciences	14254	G	1
18.0800	Hematology, Other	Particular Topics in Health Sciences	14254	G	1
18.2300	Toxicology (Clinical), Other	Particular Topics in Health Sciences	14254	G	1
18.2100	Prosectorial Science, Other	Health Sciences—Other	14299	G	1
18.2200	Public Health Laboratory Science, Other	Health Sciences—Other	14299	G	1
17.0591	Health Occupations, Independent Study	Health Care Sciences—Independent Study	14997	G	1
17.0592	Health Occupations - Cooperative Education 1	Health Care Sciences—Workplace Experience	14998	G	1
17.0593	Health Occupations - Cooperative Education 2	Health Care Sciences—Workplace Experience	14998	G	2
55.3111	Health Occupations Work Study 1	Health Care Sciences—Work Experience	14998	G	1
55.3119	Health Occupations Work Study 1, not for credit	Health Care Sciences—Work Experience	14998	G	1
55.3121	Health Occupations Work Study 2	Health Care Sciences—Work Experience	14998	G	2
55.3129	Health Occupations Work Study 2, not for credit	Health Care Sciences—Work Experience	14998	G	2
55.3211	Health Occupations Work Experience 1	Health Care Sciences—Work Experience	14998	G	1
55.3219	Health Occupations Work Experience 1, not for credit	Health Care Sciences—Work Experience	14998	G	1
55.3221	Health Occupations Work Experience 2	Health Care Sciences—Work Experience	14998	G	2
55.3229	Health Occupations Work Experience 2, not for credit	Health Care Sciences—Work Experience	14998	G	2
17.0100	Dental Services, Other	Health Care Sciences—Other	14999	G	1
17.0200	Diagnostic and Treatment Services, Other	Health Care Sciences—Other	14999	G	1
17.0500	Miscellaneous Allied Health Services, Other	Health Care Sciences—Other	14999	G	1
17.9900	Allied Health, Other	Health Care Sciences—Other	14999	G	1
18.1600	Population and Family Planning, Other	Health Care Sciences—Other	14999	G	1
18.1700	Pre-Dentistry, Other	Health Care Sciences—Other	14999	G	1
18.1800	Pre-Medicine, Other	Health Care Sciences—Other	14999	G	1
18.1900	Pre-Pharmacy, Other	Health Care Sciences—Other	14999	G	1
18.2000	Pre-Veterinary, Other	Health Care Sciences—Other	14999	G	1
18.9900	Health Sciences, Other	Health Care Sciences—Other	14999	G	1
43.0100	Criminal Justice, Other	Criminal Justice	15051	G	1
43.0111	Law Enforcement; Police Science; Criminal Justice	Criminal Justice	15051	G	1
43.0121	Law Science; Forensic Studies	Forensic Science	15055	G	1
44.0200	Community Services, Other	Public Safety	15101	G	1
43.0311	Security Guard	Particular Topics in Security	15103	G	1
43.9900	Protective Services, Other	Security and Protection—Other	15149	G	1
43.0200	Fire Protection, Other	Fire Fighting	15152	G	1
43.0211	Fire Fighting Practices; Fire Science	Fire Fighting	15152	G	1
43.0221	Fire Safety Education	Particular Topics in Fire Management	15153	G	1
44.0400	Public Administration, Other	Public Administration	15201	G	1
44.0500	Public Policy Studies, Other	Public Policy	15203	G	1
44.0600	Public Works, Other	Government Service	15249	G	1

See notes at end of table.



**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
43.0300	International Public Service, Other	Public, Protective, and Government Service—Other	15999	G	1
44.0100	Public Affairs, Other General	Public, Protective, and Government Service—Other	15999	G	1
44.0300	International Public Service, Other	Public, Protective, and Government Service—Other	15999	G	1
44.0700	Social Work, Other	Public, Protective, and Government Service—Other	15999	G	1
44.9900	Public Affairs, Other	Public, Protective, and Government Service—Other	15999	G	1
08.0911	Orientation to Hospitality Careers	Exploration of Hospitality Careers	16001	G	1
55.6311	Food Services 1	Restaurant, Food, and Beverage Services—Comprehensive	16052	G	1
55.6319	Food Services 1, not for credit	Restaurant, Food, and Beverage Services—Comprehensive	16052	G	1
55.6321	Food Services 2	Restaurant, Food, and Beverage Services—Comprehensive	16052	G	2
55.6329	Food Services 2, not for credit	Restaurant, Food, and Beverage Services—Comprehensive	16052	G	2
20.0411	Food Service Training; Culinary Arts 1; Commercial Foods, Basic; Restaurant Occupations 1; Chef Class	Food Service	16053	G	1
20.0412	Food Service Training 2; Culinary Arts 2; Commercial Foods, Advanced; Restaurant Occupations 2	Food Service	16053	G	2
20.0441	Chef	Food Service	16053	G	1
20.0188	Nutrition; Fitness Foods	Nutrition and Food Preparation	16054	G	1
20.0413	Food Services/Restaurant Management	Restaurant Management and Operations	16055	G	1
20.0185	Foods 3; Gourmet Foods; Foods, Experimental; Foods Preparation, Advanced	Culinary Arts Specialty	16056	G	1
20.0186	Foods 4	Culinary Arts Specialty	16056	G	2
20.0187	International Foods; Foreign Foods	Culinary Arts Specialty	16056	G	1
20.0431	Baking	Culinary Arts Specialty	16056	G	1
20.0451	Catering	Particular Topics in Restaurant, Food and Beverage Services	16057	G	1
20.0471	Food Testing	Particular Topics in Restaurant, Food and Beverage Services	16057	G	1
20.0421	Food Service Cooperative Training; Food Service, Vocational	Restaurant, Food and Beverage Services—Workplace Experience	16098	G	1
20.0400	Food Production, Management and Services, Other	Restaurant, Food and Beverage Services—Other	16099	G	1
20.0461	Dietetic Aide	Restaurant, Food and Beverage Services—Other	16099	G	1
20.0481	School Food Service; Cafeteria Assistant	Restaurant, Food and Beverage Services—Other	16099	G	1
20.0611	Custodial Services	Institutional Maintenance	16103	G	1
20.0621	Executive Housekeeping	Institutional Maintenance	16103	G	1
55.6211	Custodial And Housekeeping Services 1	Institutional Maintenance	16103	G	1
55.6219	Custodial and Housekeeping Services 1, not for credit	Institutional Maintenance	16103	G	1
55.6221	Custodial And Housekeeping Services 2	Institutional Maintenance	16103	G	2
55.6229	Custodial and Housekeeping Services 2, not for credit	Institutional Maintenance	16103	G	2
06.0711	Hotel and Motel Management	Particular Topics in Lodging	16104	G	1
06.0712	Hotel and Motel Training	Particular Topics in Lodging	16104	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
08.1111	Tourism Services	Travel and Tourism—Comprehensive	16152	G	1
49.0131	Air Travel Service Occupations	Particular Topics in Travel and Tourism	16155	G	1
08.1121	Entertainment Park/Tourism - Cooperative Education	Travel and Tourism—Workplace Experience	16198	G	1
31.0111	Recreation Aide	Recreation, Amusement and Attractions—Comprehensive	16202	G	1
12.0200	Entertainment Services, Other	Particular Topics in Recreation, Amusement and Attractions	16203	G	1
12.0211	Sports Officiating	Particular Topics in Recreation, Amusement, and Attractions	16203	G	1
31.0121	Search and Rescue	Security and Protection—Other	15149	G	1
31.0200	Outdoor Recreation, Other	Particular Topics in Recreation, Amusement, and Attractions	16203	G	1
31.0211	Winter/Ski Resort Operation	Particular Topics in Recreation, Amusement, and Attractions	16203	G	1
31.0300	Parks and Recreation Management, Other	Particular Topics in Recreation, Amusement, and Attractions	16203	G	1
31.0400	Water Resources, Other	Particular Topics in Recreation, Amusement, and Attractions	16203	G	1
31.9900	Parks and Recreation, Other	Particular Topics in Recreation, Amusement, and Attractions	16203	G	1
03.0621	Rural Recreation	Recreation, Amusement, and Attractions Management	16204	G	1
31.0100	Parks and Recreation, Other General	Recreation, Amusement and Attractions—Other	16249	G	1
20.0631	Homemaker's Aide; Homemaker's Assistant, Home Management	Hospitality and Tourism—Other	16999	G	1
46.0411	Building Construction 1; House Construction; Home Mechanics; Building Trades 1; Manufactured Housing Assembly 1	Construction—Comprehensive	17002	G	1
46.0412	Building Construction 2; Building Trades 2; Manufactured Housing Assembly 2	Construction—Comprehensive	17002	G	2
46.0413	Building Construction 3; Building Trades 3; Manufactured Housing Assembly 3	Construction—Comprehensive	17002	G	3
55.8011	General Construction Trades 1	Construction—Comprehensive	17002	G	1
55.8019	General Construction Trades 1, not for credit	Construction—Comprehensive	17002	G	1
55.8021	General Construction Trades 2	Construction—Comprehensive	17002	G	2
55.8029	General Construction Trades 2, not for credit	Construction—Comprehensive	17002	G	2
55.8031	General Construction Trades 3	Construction—Comprehensive	17002	G	3
55.8039	General Construction Trades 3, not for credit	Construction—Comprehensive	17002	G	3
46.0200	Carpentry, Other	Carpentry	17003	G	1
46.0211	Carpentry 1	Carpentry	17003	G	1
46.0212	Carpentry 2; Structural Woods; Carpentry, Advanced	Carpentry	17003	G	2
46.0213	Carpentry 3	Carpentry	17003	G	3
55.8211	Carpentry 1	Carpentry	17003	G	1
55.8219	Carpentry 1, not for credit	Carpentry	17003	G	1
55.8221	Carpentry 2	Carpentry	17003	G	2
55.8229	Carpentry 2, not for credit	Carpentry	17003	G	2
46.0422	Flooring Installation	Particular Topics in Carpentry	17005	G	1
48.0711	Woodworking 1; Woodworking, Basic; Wood 1	Woodworking	17006	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
48.0712	Woodworking 2; Wood 2; Machine Woodworking; Wood Products	Woodworking	17006	G	2
48.0713	Woodworking 3; Woodworking, Advanced; Wood 3	Woodworking	17006	G	3
48.0714	Woodworking 4; Wood 4	Woodworking	17006	G	4
48.0731	Cabinetmaking 1; Millwork	Cabinetmaking	17007	G	1
48.0732	Cabinetmaking 2	Cabinetmaking	17007	G	2
46.0100	Brickmasonry, Stonemasonry, and Tile Setting, Other	Masonry	17008	G	1
46.0111	Masonry 1; Bricklaying and Masonry 1	Masonry	17008	G	1
46.0112	Masonry 2; Bricklaying and Masonry 2; Masonry, Advanced	Masonry	17008	G	2
46.0113	Masonry 3	Masonry	17008	G	3
46.0121	Tile Setting and Plastering	Masonry	17008	G	1
55.8111	Brickmasonry, Stonemasonry, And Tile Setting 1	Masonry	17008	G	1
55.8119	Brickmasonry, Stonemasonry, And Tile Setting 1, not for credit	Masonry	17008	G	1
55.8121	Brickmasonry, Stonemasonry, And Tile Setting 2	Masonry	17008	G	2
55.8129	Brickmasonry, Stonemasonry, And Tile Setting 2, not for credit	Masonry	17008	G	2
12.0521	Building and Grounds Maintenance Occupations 1	Building Repair, and Maintenance	17009	G	1
12.0522	Building and Grounds Maintenance Occupations 2	Building Repair, and Maintenance	17009	G	2
12.0523	Building and Grounds Maintenance Occupations 3	Building Repair, and Maintenance	17009	G	3
46.0431	Building Maintenance	Building Repair, and Maintenance	17009	G	1
46.0432	Building Maintenance 2	Building Repair, and Maintenance	17009	G	2
46.0441	Home Maintenance and Repair	Home Maintenance	17010	G	1
46.0421	Painting and Decorating	Wall Finishings	17011	G	1
48.0321	Upholstery	Upholstering	17012	G	1
48.0322	Upholstery, Advanced	Upholstering	17012	G	2
48.0331	Auto Upholstery	Upholstering	17012	G	1
48.0721	Furniture Refinishing	Upholstering	17012	G	1
46.0131	Concrete Technician	Concrete Foundations	17014	G	1
46.0451	Building Construction - Cooperative Education 1; Construction Trades - Cooperative Education 1	General Construction—Workplace Experience	17048	G	1
46.0452	Building Construction - Cooperative Education 2; Construction Trades - Cooperative Education 2	General Construction—Workplace Experience	17048	G	2
55.8411	Construction Trades Work Study 1	General Construction—Workplace Experience	17048	G	1
55.8419	Construction Trades Work Study 1, not for credit	General Construction—Workplace Experience	17048	G	1
55.8421	Construction Trades Work Study 2	General Construction—Workplace Experience	17048	G	2
55.8429	Construction Trades Work Study 2, not for credit	General Construction—Workplace Experience	17048	G	2
55.8511	Construction Trades Work Experience 1	General Construction—Workplace Experience	17048	G	1
55.8519	Construction Trades Work Experience 1, not for credit	General Construction—Workplace Experience	17048	G	1
55.8521	Construction Trades Work Experience 2	General Construction—Workplace Experience	17048	G	2

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
55.8529	Construction Trades Work Experience 2, not for credit	General Construction—Workplace Experience	17048	G	2
46.0400	Miscellaneous Construction Trades, Other	General Construction—Other	17049	G	1
48.0300	Leatherworking and Upholstering, Other	Particular Topics in Processing and Production	13058	G	1
48.0311	Leatherwork 1	Particular Topics in Processing and Production	13058	G	1
48.0312	Leatherwork 2	Particular Topics in Processing and Production	13058	G	2
48.0700	Woodworking, Other	General Construction—Other	17049	G	1
47.0211	Air Conditioning, Refrigeration, and Heating; Refrigeration and Air Conditioning; Commercial Heating and Air Conditioning	Air Conditioning, Heating, and Refrigeration	17055	G	1
47.0212	Air Conditioning, Refrigeration, and Heating, Advanced; Refrigeration and Air Conditioning 2	Air Conditioning, Heating, and Refrigeration	17055	G	2
47.0213	Air Conditioning, Refrigeration and Heating 3	Air Conditioning, Heating, and Refrigeration	17055	G	3
47.0200	Heating, Air Conditioning, and Refrigeration Mechanics, Other	Particular Topics in HVACR	17057	G	1
46.0511	Plumbing 1	Plumbing	17058	G	1
46.0512	Plumbing 2	Plumbing	17058	G	2
55.8311	Plumbing 1	Plumbing	17058	G	1
55.8319	Plumbing 1, not for credit	Plumbing	17058	G	1
55.8321	Plumbing 2	Plumbing	17058	G	2
55.8329	Plumbing 2, not for credit	Plumbing	17058	G	2
46.0500	Plumbing, Pipefitting, and Steamfitting, Other	Air Conditioning, Heating, and Plumbing—Other	17099	G	1
15.0321	Electrical Technology	Electricity	17102	G	1
21.0113	Electricity 1; Electricity, Basic; Electrical Trades	Electricity	17102	G	1
21.0114	Electricity 2; Electrical Trades, Advanced; Electrical Wiring Practices	Electricity	17102	G	2
46.0300	Electrical and Power Transmission Installation, Other	Residential Wiring	17103	G	1
46.0311	Housewiring 1; Residential Wiring	Residential Wiring	17103	G	1
46.0312	Housewiring 2	Residential Wiring	17103	G	2
47.0161	Industrial Electricity	Industrial Electricity	17104	G	1
46.0321	Electric Power and Communications Lineworker	Particular Topics in Electricity	17105	G	1
15.0331	Electronic Technology 1	Electronics—Comprehensive	17106	G	1
15.0332	Electronic Technology 2	Electronics—Comprehensive	17106	G	2
21.0115	Electronics 1; Electronics, Basic; Circuits, Fundamental	Electronics—Comprehensive	17106	G	1
21.0116	Electronics 2; Electronics, Digital	Electronics—Comprehensive	17106	G	2
21.0117	Electronics 3	Electronics—Comprehensive	17106	G	3
21.0118	Electronics 4	Electronics—Comprehensive	17106	G	4
15.0311	Audio Electronics	Particular Topics in Electronics	17107	G	1
15.0333	Electronics Fabrication	Particular Topics in Electronics	17107	G	1
47.0171	Industrial Electronics	Particular Topics in Electronics	17107	G	1
21.0119	Electricity and Electronics, Introduction	Electricity/Electronics—General	17108	G	1
21.0120	Electricity and Electronics, Advanced	Electricity/Electronics—General	17108	G	1
21.0130	Electricity - Cooperative Education 1	Electricity/Electronics—Workplace Experience	17148	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
21.0131	Electricity - Cooperative Education 2	Electricity/Electronics—Workplace Experience	17148	G	2
21.0140	Electronics - Cooperative Education 1	Electricity/Electronics—Workplace Experience	17148	G	1
21.0141	Electronics - Cooperative Education 2	Electricity/Electronics—Workplace Experience	17148	G	2
21.0150	Electricity/Electronics - Cooperative Education 1	Electricity/Electronics—Workplace Experience	17148	G	1
21.0151	Electricity/Electronics - Cooperative Education 2	Electricity/Electronics—Workplace Experience	17148	G	2
04.0100	Architecture and Environmental Design, Other General	Architectural Design	05192	G	1
46.9900	Construction Trades, Other	Architecture and Construction—Other	17999	G	1
02.0100	Agricultural Sciences, Other General	Agriculture—Comprehensive	18002	G	1
02.0111	Agricultural Sciences, General; Agriculture Fundamentals	Agriculture—Comprehensive	18002	G	1
02.0121	Agricultural Occupations 1	Agriculture—Comprehensive	18002	G	1
02.0122	Agricultural Occupations 2	Agriculture—Comprehensive	18002	G	2
02.0123	Agricultural Occupations 3	Agriculture—Comprehensive	18002	G	3
02.0124	Agricultural Occupations 4	Agriculture—Comprehensive	18002	G	4
02.0125	Plant and Animal Sciences	Agriculture—Comprehensive	18002	G	1
55.1011	General Agriculture 1	Agriculture—Comprehensive	18002	G	1
55.1019	General Agriculture 1, not for credit	Agriculture—Comprehensive	18002	G	1
55.1021	General Agriculture 2	Agriculture—Comprehensive	18002	G	2
55.1029	General Agriculture 2, not for credit	Agriculture—Comprehensive	18002	G	2
55.1031	General Agriculture 3	Agriculture—Comprehensive	18002	G	3
55.1039	General Agriculture 3, not for credit	Agriculture—Comprehensive	18002	G	3
02.0126	Agricultural Biology	Biological Applications in Agriculture	18004	G	1
01.0331	Crop Production	Plant Systems/Science	18051	G	1
02.0400	Plant Sciences, Other	Plant Systems/Science	18051	G	1
02.0411	Agronomy; Plant Science	Plant Systems/Science	18051	G	1
01.0600	Horticulture, Other	Horticulture Science	18052	G	1
01.0611	Horticulture; Plant Propagation	Horticulture Science	18052	G	1
55.1211	Plant Care 1	Horticulture Science	18052	G	1
55.1219	Plant Care 1, not for credit	Horticulture Science	18052	G	1
55.1221	Plant Care 2	Horticulture Science	18052	G	2
55.1229	Plant Care 2, not for credit	Horticulture Science	18052	G	2
01.0621	Floriculture; Floriculture and Gardening	Ornamental Horticulture	18053	G	1
02.0421	Ornamental Horticulture 1	Ornamental Horticulture	18053	G	1
02.0422	Ornamental Horticulture 2	Ornamental Horticulture	18053	G	2
02.0423	Ornamental Horticulture 3	Ornamental Horticulture	18053	G	3
01.0631	Landscaping; Landscaping and Home Fruit Production; Landscape Maintenance and Construction; Landscape Design	Turf and Landscape Management	18054	G	1
01.0632	Landscaping, Advanced	Turf and Landscape Management	18054	G	2
01.0671	Turf Management	Turf and Landscape Management	18054	G	1
02.0500	Soil Sciences, Other	Soil Science	18055	G	1
02.0511	Soil Sciences, General	Soil Science	18055	G	1
01.0641	Greenhouse Management	Particular Topics in Plant Systems	18056	G	1
01.0651	Nursery Operations and Management; Nursery Practices; Nursery Management	Particular Topics in Plant Systems	18056	G	1
02.0521	Fertilizers and Chemicals; Agricultural Chemistry	Particular Topics in Plant Systems	18056	G	1
04.0600	Landscape Architecture, Other	Architectural Design	05192	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
20.0521	Floral Design	Particular Topics in Plant Systems	18056	G	1
01.0662	Horticultural Mechanics 2; Horticultural Mechanics - Cooperative Education	Plant Systems—Workplace Experience	18098	G	2
01.0321	Animal Production; Animal and Veterinary Science; Animal Husbandry	Animal Production/Science	18101	G	1
02.0200	Animal Sciences, Other	Animal Production/Science	18101	G	1
02.0211	Animal Sciences 1	Animal Production/Science	18101	G	1
02.0212	Animal Sciences 2	Animal Production/Science	18101	G	2
02.0231	Poultry	Animal Production/Science	18101	G	1
02.0241	Dairy Production	Animal Production/Science	18101	G	1
55.1111	Animal Care 1	Animal Production/Science	18101	G	1
55.1119	Animal Care 1, not for credit	Animal Production/Science	18101	G	1
55.1121	Animal Care 2	Animal Production/Science	18101	G	2
55.1129	Animal Care 2, not for credit	Animal Production/Science	18101	G	2
02.0271	Small Animal Production 1; Small Animal Production	Small Animal Care	18102	G	1
02.0272	Small Animal Production 2; Small Animal Production - Cooperative Education	Small Animal Care Animal Systems—Workplace Experience	18102	G	2
02.0221	Livestock 9	Large Animal Care	18103	G	1
02.0222	Livestock 10	Large Animal Care	18103	G	2
02.0261	Horse Production	Equine Science	18104	G	1
02.0262	Horseshoeing/Farrier Training	Equine Science	18104	G	1
17.0571	Veterinary Science; Veterinary Aide	Veterinary Science	18105	G	1
18.2400	Veterinary Medicine, Other	Veterinary Science	18105	G	1
01.0521	Animal Grooming; Pet Grooming	Particular Topics in Animal Systems	18106	G	1
02.0251	Nutrition and Feeds	Animal Nutrition	18107	G	1
01.0111	Agribusiness, Introduction; Agricultural Business	Agribusiness Management	18201	G	1
01.0121	Agricultural Business Operation; Agricultural Business Leadership	Agribusiness Management Agricultural Leadership	18201	G	1
01.0161	Agricultural Microprocessing	Agricultural Entrepreneurship	18202	G	1
01.0131	Farm and Ranch Management	Particular Topics in Agribusiness	18204	G	1
01.0141	State and Community Agriculture	Particular Topics in Agribusiness	18204	G	1
01.0700	International Agriculture, Other	Particular Topics in Agribusiness	18204	G	1
01.0171	Agriculture Cooperatives; Agricultural Cooperative Education 1	Agribusiness—Workplace Experience	18248	G	1
01.0172	Agricultural Cooperative Education 2	Agribusiness—Workplace Experience	18248	G	2
01.0100	Agricultural Business and Management, Other	Agribusiness - Other	18249	G	1
01.0300	Agricultural Production, Other	Agricultural Production	18301	G	1
01.0311	Agricultural Production, General; Production Agriculture	Agricultural Production	18301	G	1
01.0411	Agricultural Products and Processing 1	Agricultural Processing	18302	G	1
01.0412	Agricultural Products and Processing 2	Agricultural Processing	18302	G	2
01.0681	Fruit and Vegetable Production	Food Product Processing	18305	G	1
02.0281	Fish Production	Aquaculture	18306	G	1
03.0700	Marine Management and Oceanography, Other	Aquaculture	18306	G	1
03.0711	Marine Management/Oceanography 1; Marine Technology 1	Aquaculture	18306	G	1
03.0712	Marine Management/Oceanography 2; Marine Technology 2	Aquaculture	18306	G	2
01.0312	Agriculture Technology 1	Particular Topics in Agricultural Production/Processing	18309	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
01.0313	Agriculture Technology 2	Particular Topics in Agricultural Production/Processing	18309	G	2
48.0400	Precision Food Production, Other	Particular Topics in Agricultural Production/Processing	18309	G	1
48.0411	Meatcutting 1	Particular Topics in Agricultural Production/Processing	18309	G	1
48.0412	Meatcutting 2	Particular Topics in Agricultural Production/Processing	18309	G	2
55.7311	Meatcutting 1	Particular Topics in Agricultural Production/Processing	18309	G	1
55.7319	Meatcutting 1, not for credit	Particular Topics in Agricultural Production/Processing	18309	G	1
55.7321	Meatcutting 2	Particular Topics in Agricultural Production/Processing	18309	G	2
55.7329	Meatcutting 2, not for credit	Particular Topics in Agricultural Production/Processing	18309	G	2
01.0421	Agricultural Products and Processing - Cooperative Education	Agricultural Production and Processing—Workplace Experience	18348	G	1
01.1421	Agricultural Products, Cooperative Education	Agricultural Production and Processing—Workplace Experience	18348	G	1
01.0400	Agricultural Products and Processing, Other	Agricultural Production and Processing—Other	18349	G	1
01.9900	Agribusiness and Agricultural Production, Other	Agricultural Production and Processing—Other	18349	G	1
01.0211	Agricultural Mechanics, General; Agricultural Construction and Maintenance	Agriculture Mechanics and Equipment	18402	G	1
01.0212	Agricultural Mechanics 2	Agriculture Mechanics and Equipment	18402	G	2
01.0213	Agricultural Mechanics 3	Agriculture Mechanics and Equipment	18402	G	3
01.0214	Agricultural Mechanics 4	Agriculture Mechanics and Equipment	18402	G	4
01.0231	Power and Machinery, Agricultural; Small Engines, Agricultural	Agriculture Mechanics and Equipment	18402	G	1
01.0661	Horticulture Power Equipment Operation and Maintenance; Horticultural Mechanics 1	Agriculture Mechanics and Equipment	18402	G	1
55.1311	Agricultural Mechanics 1	Agriculture Mechanics and Equipment	18402	G	1
55.1319	Agricultural Mechanics 1, not for credit	Agriculture Mechanics and Equipment	18402	G	1
55.1321	Agricultural Mechanics 2	Agriculture Mechanics and Equipment	18402	G	2
55.1329	Agricultural Mechanics 2, not for credit	Agriculture Mechanics and Equipment	18402	G	2
01.0241	Farm Construction	Agricultural Structures	18403	G	1
01.0221	Welding, Agricultural	Agricultural Metal Fabrication Technology	18404	G	1
01.0251	Electricity and Electronics, Agricultural	Particular Topics in Agricultural Mechanics and Construction	18405	G	1
01.0261	Soil and Water Mechanical Practices	Particular Topics in Agricultural Mechanics and Construction	18405	G	1
01.0271	Surveying, Agricultural	Particular Topics in Agricultural Mechanics and Construction	18405	G	1
01.0200	Agricultural Mechanics, Other	Agricultural Mechanics and Construction, Other	18449	G	1
03.0600	Wildlife Management, Other	Wildlife Management	18501	G	1
03.0611	Wildlife Management	Wildlife Management	18501	G	1
03.0400	Forestry Production and Processing, Other	Forestry Management	18502	G	1
03.0500	Forestry and Related Sciences, Other	Forestry Management	18502	G	1
03.0511	Forestry Science 1; Forestry, Introduction	Forestry Management	18502	G	1
03.0512	Forestry Science 2	Forestry Management	18502	G	2

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
03.0100	Renewable Natural Resources, Other General	Natural Resources Management	18504	G	1
03.0200	Conservation and Regulation, Other	Natural Resources Management	18504	G	1
03.0211	Conservation and Regulation; Soils, Forestry and Wildlife	Natural Resources Management	18504	G	1
03.0212	Environmental Management 1	Natural Resources Management	18504	G	1
03.0213	Environmental Management 2	Natural Resources Management	18504	G	2
03.0300	Fishing and Fisheries, Other	Particular Topics in Natural Resources	18505	G	1
03.0311	Waterman Occupations	Particular Topics in Natural Resources	18505	G	1
03.0221	Environmental Management - Cooperative Education	Natural Resources—Workplace Experience	18548	G	1
03.0521	Forestry Occupations - Work Experience; Forestry - Cooperative Education	Natural Resources—Workplace Experience	18548	G	1
03.9900	Renewable Natural Resources, Other	Natural Resources—Other	18549	G	1
01.0181	Agriculture, Independent Study	Agriculture, Food, and Natural Resources—Independent Study	18997	G	1
01.0182	SOEP - Supervised Occupational Experience Program	Agriculture, Food, and Natural Resources—Workplace Experience	18998	G	1
55.1411	Agricultural Work Study	Agriculture, Food, and Natural Resources—Workplace Experience	18998	G	1
55.1419	Agricultural Work Study, not for credit	Agriculture, Food, and Natural Resources—Workplace Experience	18998	G	1
55.1511	Agricultural Work Experience	Agriculture, Food, and Natural Resources—Workplace Experience	18998	G	2
55.1519	Agricultural Work Experience, not for credit	Agriculture, Food, and Natural Resources—Workplace Experience	18998	G	2
01.0500	Agricultural Services and Supplies, Other	Agriculture, Food, and Natural Resources—Other	18999	G	1
02.9900	Agricultural Sciences, Other	Agriculture, Food, and Natural Resources, Other Agriculture—Comprehensive	18999	G	1
12.0431	Personal Services Occupations	Human Services Career Exploration	19001	G	1
12.0511	General Services Occupations 1	Human Services Career Exploration	19001	G	1
12.0512	General Services Occupations 2	Human Services Career Exploration	19001	G	2
12.0513	General Services Occupations 3	Human Services Career Exploration	19001	G	3
12.0514	General Services Occupations 4	Human Services Career Exploration	19001	G	4
44.0711	Human Services	Human Services Career Exploration	19001	G	1
55.6411	Miscellaneous Services 1	Human Services Career Exploration	19001	G	1
55.6419	Miscellaneous Services 1, not for credit	Human Services Career Exploration	19001	G	1
55.6421	Miscellaneous Services 2	Human Services Career Exploration	19001	G	2
55.6429	Miscellaneous Services 2, not for credit	Human Services Career Exploration	19001	G	2
20.0211	Child Care Services; Early Childhood Workshop; Child Development Services; Nursery School Training	Child Care	19051	G	1
20.0221	Child Care Aide	Child Care	19051	G	1
20.0231	Child Care Management	Child Care	19051	G	1
20.0121	Child Development 8 - Middle School Level	Child Development	19052	G	1
20.0122	Child Development 1	Child Development	19052	G	1
20.0123	Child Development 2	Child Development	19052	G	2
20.0124	Child Development 3	Child Development	19052	G	3
20.0125	Child Development 4	Child Development	19052	G	4
55.4111	Child Development 1	Child Development	19052	G	1
55.4119	Child Development 1, not for credit	Child Development	19052	G	1
55.4121	Child Development 2	Child Development	19052	G	2
55.4129	Child Development 2, not for credit	Child Development	19052	G	2

See notes at end of table.



**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
20.0641	Companion to the Aged; Geriatrics 1	Elder Care	19053	G	1
20.0642	Geriatrics 2; Senior Citizen Services Director	Elder Care	19053	G	2
20.0661	Therapeutic Recreation Aide	Child and Adult Care Service	19054	G	1
20.0126	Current Issues in Child Development	Particular Topics in Child and Elder Care	19055	G	1
20.0161	Family Health 1; Family Nursing	Particular Topics in Child and Elder Care	19055	G	1
20.0162	Family Health 2; Family Nursing, Advanced	Particular Topics in Child and Elder Care	19055	G	2
20.0200	Child Care and Guidance Management and Services, Other	Particular Topics in Child and Elder Care	19055	G	1
20.0241	Foster Care and Family Care; Family Care Services	Particular Topics in Child and Elder Care	19055	G	1
20.0261	Child Care - Cooperative Education 1	Child and Elder Care—Workplace Experience	19098	G	1
20.0262	Child Care - Cooperative Education 2	Child and Elder Care—Workplace Experience	19098	G	2
20.0643	Geriatrics - Cooperative Education 1	Child and Elder Care—Workplace Experience	19098	G	1
20.0644	Geriatrics - Cooperative Education 2	Child and Elder Care—Workplace Experience	19098	G	2
20.0671	Institutional, Home Management Support Services - Cooperative Education	Child and Elder Care—Workplace Experience	19098	G	1
12.0411	Cosmetology; Esthetician Creative Coiffure and Shaping and Conditioning Hair; Care of the Nails and Skin	Cosmetology-Licensing	19101	G	1
12.0412	Cosmetology 2; Wigology and the Professional Business of Cosmetology; Cosmetology, Advanced	Cosmetology-Licensing	19101	G	2
12.0413	Cosmetology 3	Cosmetology-Licensing	19101	G	3
12.0421	Barbering 1	Barbering	19102	G	1
12.0422	Barbering 2	Barbering	19102	G	2
12.0423	Barbering 3	Barbering	19102	G	3
55.6111	Cosmetology/Barber 1	Cosmetology—Non-licensing	19104	G	1
55.6119	Cosmetology/Barber 1, not for credit	Cosmetology—Non-licensing	19104	G	1
55.6121	Cosmetology/Barber 2	Cosmetology—Non-licensing	19104	G	2
55.6129	Cosmetology/Barber 2, not for credit	Cosmetology—Non-licensing	19104	G	2
12.0414	Cosmetology - Cooperative Education 2, Part 1	Cosmetology—Workplace Experience	19148	G	1
12.0415	Cosmetology - Cooperative Education 2, Part 2	Cosmetology—Workplace Experience	19148	G	2
13.1200	Teacher Education, General Programs, Other	Teaching Profession	19151	G	1
13.1201	Teacher Training (Lecture and Observation)	Teaching Profession	19151	G	1
13.1202	Teacher Training (Active Practice/Practicum)	Teaching Profession	19151	G	1
13.0300	Curriculum and Instruction, Other	Educational Methodology	19152	G	1
13.0200	Bilingual/Bicultural Education, Other	Particular Topics in Education	19154	G	1
13.0400	Education Administration, Other	Particular Topics in Education	19154	G	1
13.0500	Educational Media, Other	Particular Topics in Education	19154	G	1
13.0600	Evaluation and Research, Other	Particular Topics in Education	19154	G	1
13.0700	International and Comparative Education, Other	Particular Topics in Education	19154	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
13.0800	School Psychology, Other	Particular Topics in Education	19154	G	1
13.0900	Social Foundations, Other	Particular Topics in Education	19154	G	1
13.1000	Special Education, Other	Particular Topics in Education	19154	G	1
13.1100	Student Counseling and Personnel Services, Other	Particular Topics in Education	19154	G	1
13.1300	Teacher Education, Specific Subject Areas, Other	Particular Topics in Education	19154	G	1
13.1400	Teaching English as a Second Language/Foreign Language, Other	Particular Topics in Education	19154	G	1
20.0251	Teacher Aide/Elementary	Particular Topics in Education	19154	G	1
20.0252	Teacher Aide/Secondary	Particular Topics in Education	19154	G	1
13.0100	Education, Other General	Education—Other	19199	G	1
13.9900	Education, Other	Education—Other	19199	G	1
20.0311	Clothing Occupations 1; Profitable Sewing 1; Fashion Design and Clothing Occupations	Clothing and Textiles	19201	G	1
20.0312	Clothing Occupations 2; Profitable Sewing 2	Clothing and Textiles	19201	G	2
20.0313	Clothing Occupations 3	Clothing and Textiles	19201	G	3
55.4211	Clothing And Textiles 1	Clothing and Textiles	19201	G	1
55.4219	Clothing and Textiles 1, not for credit	Clothing and Textiles	19201	G	1
55.4221	Clothing And Textiles 2	Clothing and Textiles	19201	G	2
55.4229	Clothing and Textiles 2, not for credit	Clothing and Textiles	19201	G	2
12.0111	Dry Cleaning 1	Clothing/Textile Maintenance	19202	G	1
12.0112	Dry Cleaning 2	Clothing/Textile Maintenance	19202	G	2
20.0321	Clothing Maintenance Aide	Clothing/Textile Maintenance	19202	G	1
20.0331	Commercial Garment and Apparel Construction	Apparel Construction	19203	G	1
20.0371	Fashion and Fabric Coordination	Apparel Construction	19203	G	1
20.0391	Clothing Production Management	Apparel Construction	19203	G	1
55.7211	Leatherwork And Upholstery 1	Apparel and Textile Services	19204	G	1
55.7219	Leatherwork And Upholstery 1, not for credit	Apparel and Textile Services	19204	G	1
55.7221	Leatherwork And Upholstery 2	Apparel and Textile Services	19204	G	2
55.7229	Leatherwork And Upholstery 2, not for credit	Apparel and Textile Services	19204	G	2
20.0511	Housing and Interior Design 1; Home and Interiors; Home Furnishings; Living Environments	Home Furnishing	19205	G	1
20.0512	Housing and Interior Design 2	Home Furnishing	19205	G	2
12.0100	Dry Cleaning and Laundering Services, Other	Particular Topics in Apparel and Furnishings	19207	G	1
20.0137	Tailoring	Particular Topics in Apparel and Furnishings	19207	G	1
20.0300	Clothing, Apparel, and Textiles Management, Production, and Services, Other	Particular Topics in Apparel and Furnishings	19207	G	1
20.0341	Custom Apparel Construction	Particular Topics in Apparel and Furnishings	19207	G	1
20.0351	Custom Tailoring and Alteration	Particular Topics in Apparel and Furnishings	19207	G	1
20.0361	Wedding and Specialty Consulting	Particular Topics in Apparel and Furnishings	19207	G	1
20.0381	Textiles Testing	Particular Topics in Apparel and Furnishings	19207	G	1
20.0531	Home Decorating	Particular Topics in Apparel and Furnishings	19207	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
20.0551	Custom Drapery and Window Treatment Design	Particular Topics in Apparel and Furnishings	19207	G	1
20.0561	Custom Slipcovering and Upholstering	Particular Topics in Apparel and Furnishings	19207	G	1
47.0431	Shoe Repair and Orthopedics 1	Particular Topics in Apparel and Furnishings	19207	G	1
47.0432	Shoe Repair and Orthopedics 2	Particular Topics in Apparel and Furnishings	19207	G	2
20.0314	Clothing Occupations - Cooperative Education 1	Apparel and Furnishings—Workplace Experience	19248	G	1
20.0315	Clothing Occupations - Cooperative Education 2	Apparel and Furnishings—Workplace Experience	19248	G	2
20.0513	Interior Design Occupations; Home Environment Occupations	Apparel and Furnishings—Workplace Experience	19248	G	1
20.0541	Home Furnishings Aide	Apparel and Furnishings—Workplace Experience	19248	G	1
20.0500	Home Furnishings and Equipment Management, Production, and Services, Other	Apparel and Furnishings—Other	19249	G	1
17.0400	Mental Health/Human Services, Other	Counseling and Mental Health	19301	G	1
17.0431	Mental Health Worker; Psychiatric Aide	Counseling and Mental Health	19301	G	1
20.0153	Home Economics Laboratory Assistant	Human Services—Aide	19995	G	1
20.0151	Home Economics Occupations 1, Exploratory; Home Economics Job Training Exploration	Human Services—Workplace Experience	19998	G	1
20.0152	Home Economics Occupations 2, Exploratory	Human Services—Workplace Experience	19998	G	2
20.0193	Home Economics - Cooperative Education 1	Human Services—Workplace Experience	19998	G	1
20.0194	Home Economics - Cooperative Education 2	Human Services—Workplace Experience	19998	G	2
20.0573	Home Service Asst - Cooperative Education 1	Human Services—Workplace Experience	19998	G	1
20.0574	Home Service Asst - Cooperative Education 2	Human Services—Workplace Experience	19998	G	2
55.6511	Service Occupations Work Study 1	Human Services—Workplace Experience	19998	G	1
55.6519	Service Occupations Work Study 1, not for credit	Human Services—Workplace Experience	19998	G	1
55.6521	Service Occupations Work Study 2	Human Services—Workplace Experience	19998	G	2
55.6529	Service Occupations Work Study 2, not for credit	Human Services—Workplace Experience	19998	G	2
55.6611	Service Occupations Work Experience 1	Human Services—Workplace Experience	19998	G	1
55.6619	Service Occupations Work Experience 1, not for credit	Human Services—Workplace Experience	19998	G	1
55.6621	Service Occupations Work Experience 2	Human Services—Workplace Experience	19998	G	2
55.6629	Service Occupations Work Experience 2, not for credit	Human Services—Workplace Experience	19998	G	2
12.0300	Funeral Services, Other	Human Services-Other	19999	G	1
12.0400	Personal Services, Other	Human Services-Other	19999	G	1
12.9900	Consumer, Personal, and Miscellaneous Services, Other	Human Services-Other	19999	G	1
20.0571	Home Service Assisting 1	Human Services—Other	19999	G	1
20.0572	Home Service Assisting 2	Human Services—Other	19999	G	2
20.9900	Vocational Home Economics, Other	Human Services—Other	19999	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
49.0411	Introduction to Transportation Industry; Transportation Technology 1	Exploration of Transportation, Distribution, and Logistics	20001	G	1
49.0412	Transportation Technology 2	Exploration of Transportation, Distribution, and Logistics	20001	G	2
49.0211	Forklift Operator	Truck and Bus Driving	20051	G	1
49.0212	Tractor-Trailer Truck Driving	Truck and Bus Driving	20051	G	1
49.0214	Bus Driver/Chauffeur	Truck and Bus Driving	20051	G	1
47.0341	Petroleum Drilling Equipment Operation and Maintenance 1	Heavy Equipment Operation	20052	G	1
47.0342	Petroleum Drilling Equipment Operation and Maintenance 2	Heavy Equipment Operation	20052	G	2
47.0343	Petroleum Drilling Equipment Operation and Maintenance 3	Heavy Equipment Operation	20052	G	3
49.0213	Heavy Vehicle Operation/Earth Moving Equipment	Heavy Equipment Operation	20052	G	1
49.0111	Aeronautics 1; Aerospace for Today	Aviation	20053	G	1
49.0112	Aeronautics 2	Aviation	20053	G	2
49.0200	Vehicle and Equipment Operation, Other	Operation—Other	20099	G	1
49.0331	Navigation	Operation—Other	20099	G	1
47.0521	Hydraulics and Pneumatics	Energy/Power	20101	G	1
47.0511	Power Mechanics 1; Power Conversion 1; Power Technology 1; Energy and Transportation 1	Power and Mechanics	20102	G	1
47.0512	Power Mechanics 2; Power Technology 2; Energy and Transportation 2	Power and Mechanics	20102	G	2
47.0513	Power Mechanics 3	Power and Mechanics	20102	G	3
47.0514	Power Mechanics 4	Power and Mechanics	20102	G	4
47.0651	Consumer Auto; Auto Owner Maintenance	Introduction to Automobiles	20103	G	1
08.1221	Automotive Professional Training; Automotive Service Station Operation	Automotive Mechanics—Comprehensive	20104	G	1
47.0621	Auto Mechanics 1; Auto Repair; Auto Engines; Vehicle Power	Automotive Mechanics—Comprehensive	20104	G	1
47.0622	Auto Mechanics 2; Automotive Technology; Auto Tune-up	Automotive Mechanics—Comprehensive	20104	G	2
47.0623	Auto Mechanics 3; Auto Mechanics, Advanced	Automotive Mechanics—Comprehensive	20104	G	3
47.0600	Vehicle and Mobile Equipment Mechanics and Repairers, Other	Particular Topics in Automotive Mechanics	20105	G	1
47.0641	Auto Service 1; Auto Maintenance	Automotive Service	20106	G	1
47.0642	Auto Service 2	Automotive Service	20106	G	2
55.9011	Auto Service 1	Automotive Service	20106	G	1
55.9019	Auto Service 1, not for credit	Automotive Service	20106	G	1
55.9021	Auto Service 2	Automotive Service	20106	G	2
55.9029	Auto Service 2, not for credit	Automotive Service	20106	G	2
47.0321	Diesel Mechanics	Diesel Mechanics—Comprehensive	20107	G	1
47.0611	Small Engine Repair 1; Small Engine Maintenance; Mechanics Trades; Small Gas Engines; Motorcycle and Recreational Vehicle Repair	Small Engine Mechanics	20110	G	1
47.0612	Small Engine Repair 2; Mechanics Trades, Advanced	Small Engine Mechanics	20110	G	2
49.0300	Water Transportation, Other	Marine Mechanics	20111	G	1
49.0311	Marine Mechanics, Basic; Marine Engine and Boat Repair 1	Marine Mechanics	20111	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
49.0312	Marine Mechanics, Advanced; Marine Engine and Boat Repair 2	Marine Mechanics	20111	G	1
49.0321	Boat Building	Marine Mechanics	20111	G	1
47.0300	Industrial Equipment Maintenance and Repair, Other	Heavy Equipment Mechanics	20112	G	1
47.0311	Industrial Mechanics 1; Heavy Equipment Mechanics; Industrial Equipment Mechanics	Heavy Equipment Mechanics	20112	G	1
47.0312	Industrial Mechanics 2	Heavy Equipment Mechanics	20112	G	2
47.0671	Aviation Powerplant 1	Aircraft Power Plant	20113	G	1
47.0672	Aviation Powerplant 2	Aircraft Power Plant	20113	G	2
47.0673	Aviation Powerplant 3	Aircraft Power Plant	20113	G	3
47.0674	Aviation Powerplant 4	Aircraft Power Plant	20113	G	4
47.0661	Airframes 1	Aircraft Airframe	20114	G	1
47.0662	Airframes 2	Aircraft Airframe	20114	G	2
47.0691	Aircraft Sheetmetal 1	Aircraft Airframe	20114	G	1
47.0692	Aircraft Sheetmetal 2	Aircraft Airframe	20114	G	2
49.0141	Aircraft Parts Management 1	Aircraft Airframe	20114	G	1
49.0142	Aircraft Parts Management 2	Aircraft Airframe	20114	G	2
47.0631	Auto Body 1; Auto Body and Fender; Auto Body Repair; Body and Fender	Automotive Body Repair and Refinishing—Comprehensive	20116	G	1
47.0632	Auto Body 2; Auto Body Repair, Advanced	Automotive Body Repair and Refinishing—Comprehensive	20116	G	2
47.0633	Auto Body 3	Automotive Body Repair and Refinishing—Comprehensive	20116	G	3
47.0624	Auto Mechanics - Cooperative Education 1	Mechanics and Repair—Workplace Experience	20148	G	1
47.0625	Auto Mechanics - Cooperative Education 2	Mechanics and Repair—Workplace Experience	20148	G	2
55.9111	Auto Service, Work Experience 1	Mechanics and Repair—Workplace Experience	20148	G	1
55.9119	Auto Service, Work Experience 1, not for credit	Mechanics and Repair—Workplace Experience	20148	G	1
55.9121	Auto Service, Work Experience 2	Mechanics and Repair—Workplace Experience	20148	G	2
55.9129	Auto Service, Work Experience 2, not for credit	Mechanics and Repair—Workplace Experience	20148	G	2
47.0500	Stationary Energy Sources, Other	Mechanics and Repair—Other	20149	G	1
47.0681	Aviation Quality Control 1	Mechanics and Repair—Other	20149	G	1
47.0682	Aviation Quality Control 2	Mechanics and Repair—Other	20149	G	2
47.9900	Mechanics and Repairers, Other	Mechanics and Repair, Other	20149	G	1
49.0421	Transportation/Traffic Technician	Mechanics and Repair—Other	20149	G	1
08.0761	Warehousing Industrial and Wholesale Material Handling	Warehouse Operations	20152	G	1
49.0100	Air Transportation, Other	Transportation, Distribution, and Logistics—Other	20999	G	1
49.0341	Aquatic Occupations; Marine Diving	Transportation, Distribution, and Logistics—Other	20999	G	1
49.9900	Transportation and Material Moving, Other	Transportation, Distribution, and Logistics—Other	20999	G	1
14.0111	Orientation to Engineering; Pre-Engineering	Pre-Engineering Technology	21001	G	1
14.1211	Instrumentation Physics 1	Engineering Applications	21002	G	1
14.1212	Instrumentation Physics 2	Engineering Applications	21002	G	2
14.1213	Instrumentation Physics 3	Engineering Applications	21002	G	3
14.1214	Instrumentation Physics 4	Engineering Applications	21002	G	4
15.0821	Mechanical Engineering Technology	Engineering Technology	21003	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
15.0911	Mining Technology	Engineering Technology	21003	G	1
15.0921	Petroleum Technology	Engineering Technology	21003	G	1
30.0311	Engineering Concepts	Engineering—Comprehensive	21005	G	1
14.0911	Robotics	Robotics	21009	G	1
15.0411	Electromechanical Technology 1; Robotics Technology	Computer Integrated Manufacturing	21010	G	1
15.0412	Electromechanical Technology 2	Computer Integrated Manufacturing	21010	G	2
14.0800	Civil Engineering, Other	Civil Engineering	21011	G	1
15.0221	Civil Engineering Technician	Civil Engineering	21011	G	1
14.0400	Architectural Engineering, Other	Civil Engineering and Architecture	21012	G	1
14.0200	Aerospace, Aeronautical, and Astronautical Engineering, Other	Aerospace Engineering	21013	G	1
14.0211	Aerospace Materials	Aerospace Engineering	21013	G	1
14.0221	Aerospace Engineering Design	Aerospace Engineering	21013	G	1
14.0500	Bioengineering and Biomedical Engineering, Other	Biotechnical Engineering	21014	G	1
14.0300	Agricultural Engineering, Other	Particular Topics in Engineering	21015	G	1
14.0411	Strength of Materials - Architectural	Particular Topics in Engineering	21015	G	1
14.0600	Ceramic Engineering, Other	Particular Topics in Engineering	21015	G	1
14.0700	Chemical Engineering, Other	Particular Topics in Engineering	21015	G	1
14.0900	Computer Engineering, Other	Particular Topics in Engineering	21015	G	1
14.1000	Electrical, Electronics and Communications Engineering, Other	Particular Topics in Engineering	21015	G	1
14.1400	Environmental Health Engineering, Other	Particular Topics in Engineering	21015	G	1
14.1500	Geological Engineering, Other	Particular Topics in Engineering	21015	G	1
14.1600	Geophysical Engineering, Other	Particular Topics in Engineering	21015	G	1
14.1700	Industrial Engineering, Other	Particular Topics in Engineering	21015	G	1
14.1800	Materials Engineering, Other	Particular Topics in Engineering	21015	G	1
14.1900	Mechanical Engineering, Other	Particular Topics in Engineering	21015	G	1
14.1911	Strength of Materials, Mechanical Technology	Particular Topics in Engineering	21015	G	1
14.2000	Metallurgical Engineering, Other	Particular Topics in Engineering	21015	G	1
14.2100	Mining and Mineral Engineering, Other	Particular Topics in Engineering	21015	G	1
14.2200	Naval Architecture and Marine Engineering, Other	Particular Topics in Engineering	21015	G	1
14.2300	Nuclear Engineering, Other	Particular Topics in Engineering	21015	G	1
14.2400	Ocean Engineering, Other	Particular Topics in Engineering	21015	G	1
14.2500	Petroleum Engineering, Other	Particular Topics in Engineering	21015	G	1
14.2600	Surveying and Mapping Sciences, Other	Particular Topics in Engineering	21015	G	1
14.2611	Cartography; Map Making	Particular Topics in Engineering	21015	G	1
14.2700	Systems Engineering, Other	Particular Topics in Engineering	21015	G	1
14.2800	Textile Engineering, Other	Particular Topics in Engineering	21015	G	1
15.0111	Structural Engineering Technician	Particular Topics in Engineering	21015	G	1
14.0121	Independent Project, Engineering	Engineering-Independent Study	21047	G	1
14.0100	Engineering, Other General	Engineering—Other	21049	G	1
14.1100	Engineering Mechanics, Other	Engineering—Other	21049	G	1
14.1200	Engineering Related, Other	Engineering—Other	21049	G	1
14.1300	Engineering Science, Other	Engineering—Other	21049	G	1
14.9900	Engineering, Other	Engineering—Other	21049	G	1
15.0421	Instrumentation Technology	Technological Processes	21052	G	1
49.0121	Aviation Technology 1; Aviation, General; Avionics Technology	Aerospace Technology	21055	G	1
49.0122	Aviation Technology 2	Aerospace Technology	21055	G	2

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
49.0123	Aviation Technology 3	Aerospace Technology	21055	G	3
49.0124	Aviation Technology 4	Aerospace Technology	21055	G	4
15.0100	Architectural Technologies, Other	Particular Topics in Technology Applications	21056	G	1
15.0200	Civil Technologies, Other	Particular Topics in Technology Applications	21056	G	1
15.0300	Electrical and Electronic Technologies, Other	Particular Topics in Technology Applications	21056	G	1
15.0500	Environmental Control Technologies, Other	Particular Topics in Technology Applications	21056	G	1
15.0511	Environmental Control Technologies	Particular Topics in Technology Applications	21056	G	1
15.0800	Mechanical and Related Technologies, Other	Particular Topics in Technology Applications	21056	G	1
15.0811	Automotive Design and Technology	Particular Topics in Technology Applications	21056	G	1
15.0900	Mining and Petroleum Technologies, Other	Particular Topics in Technology Applications	21056	G	1
15.0631	Optics Technology	Technology—Other	21099	G	1
15.0700	Quality Control and Safety Technologies, Other	Technology—Other	21099	G	1
15.0711	Quality Control Technology	Technology—Other	21099	G	1
15.0431	Computer-Assisted Design/Drafting (CAD)	Drafting—General	21102	G	1
15.0432	Computer-Assisted Design/Drafting (CAD) 2	Drafting—General	21102	G	2
15.0433	Computer-Assisted Design/Drafting (CAD) 3	Drafting—General	21102	G	3
15.0434	Computer-Assisted Design/Drafting (CAD) 4	Drafting—General	21102	G	4
04.0200	Architecture, Other	Architectural Design	05192	G	1
04.0211	Architecture, Introduction	Architectural Design	05192	G	1
04.0212	Architecture, Advanced	Architectural Design	05192	G	1
48.0121	Architectural Drawing 1; Architectural Drafting	Drafting—Architectural	21103	G	1
48.0122	Architectural Drawing 2	Drafting—Architectural	21103	G	2
48.0123	Architectural Drawing 3	Drafting—Architectural	21103	G	3
48.0124	Architectural Drawing 4; Architectural Model Building	Drafting—Architectural	21103	G	4
15.0211	Surveying	Drafting—Civil/Structural	21104	G	1
15.0341	Electrical/Electronics Engineering Technician	Drafting—Electrical/Electronic	21105	G	1
48.0111	Mechanical Drawing 1; Drafting 1; Projection Theory; Drafting Fundamentals	Drafting—Technical/Mechanical	21106	G	1
48.0112	Mechanical Drawing 2; Drafting 2; Projection, Applied; Drafting, Technical	Drafting—Technical/Mechanical	21106	G	2
48.0113	Mechanical Drawing 3; Machine Drawing; Drafting 3; Illustration, Technical	Drafting—Technical/Mechanical	21106	G	3
48.0114	Mechanical Drawing 4	Drafting—Technical/Mechanical	21106	G	4
48.0131	Engineering Drawing 1; Engineering Drafting; Engineering Graphics 1	Drafting—Technical/Mechanical	21106	G	1
48.0132	Engineering Drawing 2; Engineering Graphics 2	Drafting—Technical/Mechanical	21106	G	2
48.0141	Blueprint Reading; Sketching and Blueprint Reading	Blueprint Reading	21108	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
48.0151	Drafting 1, Cooperative	Drafting—Workplace Experience	21148	G	1
48.0152	Drafting 2, Cooperative	Drafting—Workplace Experience	21148	G	2
48.0100	Drafting, Other	Drafting—Other	21149	G	1
15.9900	Engineering and Engineering-Related Technologies, Other	Engineering and Technology—Other	21999	G	1
30.0300	Engineering and Other Disciplines, Other	Engineering and Technology—Other	21999	G	1
32.0120	Test Taking, General (Changed to 32.0221)	Standardized Test Preparation	22001	G	1
32.0221	Test Taking	Standardized Test Preparation	22001	G	1
32.0117	Study Dynamics (Changed to 32.0211)	Study Skills	22003	G	1
32.0200	Basic Skills, General, Other	Study Skills	22003	G	1
32.0211	Study Dynamics	Study Skills	22003	G	1
54.2401	Functional Academics	Study Skills	22003	B	1
54.2409	Functional Academics, not for credit	Study Skills	22003	B	1
56.9101	Resource Study Skills	Study Skills	22003	B	1
56.9109	Resource Study Skills, not for credit	Study Skills	22003	B	1
35.0141	Dropout Prevention	Dropout Prevention Program	22004	X	1
32.0201	Resource Room (NON Special Ed)	Tutorial	22005	X	1
52.0701	Help for Under-Achievers and Disadvantaged Students	Tutorial	22005	X	1
56.9001	General Tutorial Services	Tutorial	22005	X	1
56.9009	General Tutorial Services, not for credit	Tutorial	22005	X	1
32.0231	Individualized Academic Program	Advancement Via Individual Determination (AVID)	22007	X	1
33.0111	Student Assistant; Teacher Assistant; Laboratory Assistant; Teacher Cadet; Office Aide; Instructional Assistant; Clerical Aide; School Service	Office Aide	22051	X	1
25.0100	Library and Archival Sciences, Other General	Library/AVC Aide	22053	G	1
25.0111	Library Science; Library Skills	Library/AVC Aide	22053	G	1
25.0200	Archival Science, Other	Library/AVC Aide	22053	G	1
25.0300	Library Assisting, Other	Library/AVC Aide	22053	G	1
25.0311	Library Assistant; Library Aide	Library/AVC Aide	22053	X	1
25.0400	Library Science, Other	Library/AVC Aide	22053	G	1
25.0500	Museology, Other	Library/AVC Aide	22053	G	1
25.9900	Library and Archival Sciences, Other	Library/AVC Aide	22053	G	1
33.0141	Tutoring; Peer Tutoring	Tutoring Practicum	22054	X	1
20.0154	Home Economics Leadership	Leadership	22101	X	1
35.0151	Leadership	Leadership	22101	X	1
45.1028	Political Leadership	Leadership	22101	X	1
32.0241	Orientation; Transition to High School	School Orientation	22102	X	1
33.0131	Student Government; Assembly	School Governance	22103	X	1
33.0151	Community Service; Community Involvement	Community Service	22104	X	1
35.0131	Peer Counseling	Peer Counseling	22107	X	1
33.0153	IB Creativity, Action, and Service	IB Creativity, Action, and Service	22108	E	1
24.0132	IB Extended Essay	IB Extended Essay	22109	E	1
32.0103	Career Exploration; Vocations, Introduction; Career Development; Work Observational Experience; Career Education; Occupational Exploratory Program	Career Exploration	22151	G	1
32.0151	Career Survey	Career Exploration	22151	G	1
55.0101	Career Exploration	Career Exploration	22151	G	1

See notes at end of table.



**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
55.0109	Career Exploration, not for credit	Career Exploration	22151	G	1
55.1001	General Pre-Vocational Preparation	Career Exploration	22151	G	1
55.1009	General Pre-Vocational Preparation, not for credit	Career Exploration	22151	G	1
56.3201	Resource Career Exploration/Pre-Vocational Skills	Career Exploration	22151	B	1
56.3209	Resource Career Exploration/Pre-Vocational Skills, not for credit	Career Exploration	22151	B	1
32.0100	Basic Skills, Career and Employment, Other	Employability Skills	22152	G	1
32.0102	Career Preparation; So You Want A Job; Business Opportunities; Job Entry Training; College and Career Planning; Guidance	Employability Skills	22152	G	1
52.0101	General (Including Pre-Vocational Programs) EMH	Employability Skills	22152	G	1
52.0201	Resource (General) EH	Employability Skills	22152	G	1
55.0001	General Prevocational Preparation	Employability Skills	22152	G	1
55.0009	General Prevocational Preparation, not for credit	Employability Skills	22152	G	1
55.0401	Combined Vocational/Academic Preparation	Employability Skills	22152	G	1
55.0409	Combined Vocational/Academic Preparation, not for credit	Employability Skills	22152	G	1
56.3211	Resource Transition Skills	Employability Skills	22152	B	1
56.3219	Resource Transition Skills, not for credit	Employability Skills	22152	B	1
32.0106	Cooperative Education 1; Vocational Cooperative Program; Cooperative Training, Diversified	Diversified Occupations	22153	G	1
32.0107	Cooperative Education 2	Diversified Occupations	22153	G	2
51.0101	Executive Internship	Miscellaneous—Workplace Experience	22998	G	1
51.0102	Executive Internship 2	Miscellaneous—Workplace Experience	22998	G	2
51.0103	International Careers Internship	Miscellaneous—Workplace Experience	22998	G	1
20.0111	Home Economics 7; Comprehensive Consumer and Homemaking 7; Homemaking 7 - Middle School Level	Family and Consumer Science—Comprehensive	22201	G	1
20.0112	Home Economics 8; Comprehensive Consumer and Homemaking; Homemaking 8 - Middle School Level	Family and Consumer Science—Comprehensive	22201	G	1
20.0113	Home Economics 1; Comprehensive Consumer and Homemaking; Homemaking 1; Homemaking, General; Home Arts	Family and Consumer Science—Comprehensive	22201	G	1
20.0114	Home Economics 2; Comprehensive Consumer and Homemaking Home Economics 2; Homemaking 2	Family and Consumer Science—Comprehensive	22201	G	2
20.0115	Home Economics 3; Comprehensive Consumer and Homemaking Home Economics 3; Homemaking 3	Family and Consumer Science—Comprehensive	22201	G	3
20.0116	Home Economics 4; Comprehensive Consumer and Homemaking Home Economics 4; Homemaking 4	Family and Consumer Science—Comprehensive	22201	G	4
20.0191	Home Management 1	Family and Consumer Science—Comprehensive	22201	G	1
20.0192	Home Management 2	Family and Consumer Science—Comprehensive	22201	G	2

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
20.0651	Consumer Aide	Family and Consumer Science—Comprehensive	22201	G	1
55.4011	General Home Economics 1	Family and Consumer Science—Comprehensive	22201	G	1
55.4019	General Home Economics 1, not for credit	Family and Consumer Science—Comprehensive	22201	G	1
55.4021	General Home Economics 2	Family and Consumer Science—Comprehensive	22201	G	2
55.4029	General Home Economics 2, not for credit	Family and Consumer Science—Comprehensive	22201	G	2
55.4031	General Home Economics 3	Family and Consumer Science—Comprehensive	22201	G	3
55.4039	General Home Economics 3, not for credit	Family and Consumer Science—Comprehensive	22201	G	3
19.0500	Food Sciences and Human Nutrition, Other	Food and Nutrition	22202	G	1
20.0181	Foods and Nutrition 7 - Middle School Level	Food and Nutrition	22202	G	1
20.0182	Foods and Nutrition 8 - Middle School Level	Food and Nutrition	22202	G	1
20.0183	Foods 1; Kitchen Survival; Meal Management; Family Meals; Nutrition and Food Management 1; Foods Preparation Basic	Food and Nutrition	22202	G	1
20.0184	Foods 2; Cooking for Compliments; Nutrition and Food Management 2; Foods Preparation, Intermediate	Food and Nutrition	22202	G	2
52.0106	Adaptive Foods EMH	Food and Nutrition	22202	G	1
55.4311	Food And Nutrition 1	Food and Nutrition	22202	G	1
55.4319	Food and Nutrition 1, not for credit	Food and Nutrition	22202	G	1
55.4321	Food And Nutrition 2	Food and Nutrition	22202	G	2
55.4329	Food and Nutrition 2, not for credit	Food and Nutrition	22202	G	2
02.0300	Food Sciences, Other	Food Science	22203	G	1
20.0173	Parenthood; Parent Education; Parenting	Child Development/Parenting	22204	G	1
19.0900	Textiles and Clothing, Other	Clothing/Sewing	22205	G	1
20.0131	Clothing 7 - Middle School Level	Clothing/Sewing	22205	G	1
20.0132	Clothing 8 - Middle School Level	Clothing/Sewing	22205	G	1
20.0133	Clothing 1; Sewing, Introduction; Sewing 1; Textiles and Clothing 1; Clothing Construction	Clothing/Sewing	22205	G	1
20.0134	Clothing 2; Sewing, Intermediate; Sewing 2; Textiles and Clothing 2; Clothing Construction, Intermediate	Clothing/Sewing	22205	G	2
20.0135	Clothing 3; Sewing 3; Textiles and Clothing 3	Clothing/Sewing	22205	G	3
20.0136	Clothing 4; Sports Wear; Alterations	Clothing/Sewing	22205	G	4
35.0100	Interpersonal Skills, Other	Life Skills	22206	G	1
35.0111	Interpersonal Relationships	Life Skills	22206	G	1
35.0121	Building Human Relationship	Life Skills	22206	G	1
54.3001	Activities of Daily And Family Living	Life Skills	22206	G	1
54.3009	Activities of Daily and Family Living, not for credit	Life Skills	22206	G	1
56.9301	Resource Survival Skills	Life Skills	22206	B	1
56.9309	Resource Survival Skills, not for credit	Life Skills	22206	B	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
37.0111	Personal Development Techniques; Personal Grooming and Fashion; Personal Management; Personal Culture; Youth and Decisions; Teens Today; Human Studies; Self Development	Self Management	22207	G	1
19.0700	Individual and Family Development, Other	Family Living	22208	G	1
20.0117	Adult Roles and Functions; Independent Living; Survival Skills; Singles Survival	Family Living	22208	E	1
20.0171	Family Relations; Family Sociology; Family Living	Family Living	22208	G	1
20.0172	Marriage Society and Change; Lifestyles	Family Living	22208	G	1
37.0100	Personal Awareness, Other	Personal Development	22209	G	1
37.0121	Coping with Personal Problems; Personal Adjustment	Personal Development	22209	G	1
37.0131	Self Perception; Self Image	Personal Development	22209	G	1
20.0141	Consumer Education; Economic Survival; Economics, Personal; Comparison Buying and Budgeting; Money Management, Personal; You and Your Money	Consumer Economics/Personal Finance	22210	G	1
20.0142	Consumer Education 2	Consumer Economics/Personal Finance	22210	G	2
19.0600	Human Environment and Housing, Other	Home Décor	22211	G	1
20.0118	Comprehensive Consumer and Homemaking Home Economics, Independent Study	Family and Consumer Science—Independent Study	22247	G	1
19.0100	Home Economics, Other General	Family and Consumer Science—Other	22249	G	1
19.0200	Business Home Economics, Other	Family and Consumer Science—Other	22249	G	1
19.0300	Family and Community Services, Other	Family and Consumer Science—Other	22249	G	1
19.0400	Family/Consumer Resource Management, Other	Family and Consumer Science—Other	22249	G	1
19.0800	International/Comparative Home Economics, Other	Family and Consumer Science—Other	22249	G	1
19.9900	Home Economics, Other	Family and Consumer Science—Other	22249	G	1
20.0100	Consumer and Homemaking Home Economics, Other	Family and Consumer Science—Other	22249	G	1
20.0600	Institutional, Home Management, and Supporting Services, Other	Family and Consumer Science—Other	22249	G	1
55.4411	Home Economics Work Study 1	Human Services—Work Experience	19998	G	1
55.4419	Home Economics Work Study 1, not for credit	Human Services—Work Experience	19998	G	1
55.4421	Home Economics Work Study 2	Human Services—Work Experience	19998	G	2
55.4429	Home Economics Work Study 2, not for credit	Human Services—Work Experience	19998	G	2
55.4511	Home Economics Work Experience 1	Human Services—Work Experience	19998	G	1
55.4519	Home Economics Work Experience 1, not for credit	Human Services—Work Experience	19998	G	1
55.4521	Home Economics Work Experience 2	Human Services—Work Experience	19998	G	2
55.4529	Home Economics Work Experience 2, not for credit	Human Services—Work Experience	19998	G	2
54.3401	Functional Transition Skills	Community Living	22251	B	1
54.3409	Functional Transition Skills, not for credit	Community Living	22251	B	1
56.2301	Resource Language Arts/English	Communication Instruction	22252	G	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
56.2302	Developmental English 2/Resource ESE AAP English 2	Communication Instruction	22252	G	2
56.2303	Developmental English 3/Resource ESE AAP English 3	Communication Instruction	22252	G	3
56.2304	Developmental English 4/Resource ESE AAP English 4	Communication Instruction	22252	G	4
56.2309	Resource Language Arts/English, not for credit	Communication Instruction	22252	G	1
56.2321	Resource Writing	Communication Instruction	22252	B	1
52.0202	Self Contained EH	Social Development Instruction	22253	G	1
52.0305	General Deaf	Social Development Instruction	22253	G	1
52.0401	General Blind	Social Development Instruction	22253	G	1
54.3101	Social/Behavioral Skills	Social Development Instruction	22253	G	1
54.3109	Social/Behavioral Skills, not for credit	Social Development Instruction	22253	G	1
56.9201	School and Social Survival Skills	Social Development Instruction	22253	G	1
56.9209	School and Social Survival Skills, not for credit	Social Development Instruction	22253	G	1
32.0112	Speech Development (Changed to 56.9401)	Developmental Support	22254	G	1
32.0114	Voice, Developmental (Changed to 56.9401)	Developmental Support	22254	G	1
52.0601	Learning Disabilities Other	Developmental Support	22254	G	1
52.0801	Speech Impairment General	Developmental Support	22254	G	1
52.0901	Physically Disabled (General)	Developmental Support	22254	G	1
52.1001	Multihandicapped (General)	Developmental Support	22254	G	1
52.1101	Severely Mentally Retarded (General)	Developmental Support	22254	G	1
54.9401	Handicapped Developmental Support Services	Developmental Support	22254	G	1
54.9409	Handicapped Developmental Support Services, not for credit	Developmental Support	22254	G	1
56.9401	Handicap Specific Support Services	Developmental Support	22254	G	1
56.9409	Handicap Specific Support Services, not for credit	Developmental Support	22254	G	1
24.0131	Independent Study; Beyond Regular Study; Mentorship	Miscellaneous—Independent Study	22997	G	1
24.0171	Internship, Other	Miscellaneous—Workplace Experience	22998	G	1
32.0104	Work Experience; Job Entry	Miscellaneous—Workplace Experience	22998	G	1
32.0105	Work Experience, Advanced; Job Training	Miscellaneous—Workplace Experience	22998	G	1
52.0110	Work Program (OJT Off Campus) EMH	Miscellaneous—Workplace Experience	22998	G	1
52.0902	Physically Disabled Work Program	Miscellaneous—Workplace Experience	22998	G	1
55.0201	General Work-Study/Experience	Miscellaneous—Workplace Experience	22998	G	1
55.0209	General Work-Study/Experience, not for credit	Miscellaneous—Workplace Experience	22998	G	1
55.0301	General Work Experience	Miscellaneous—Workplace Experience	22998	G	1
55.0309	General Work Experience, not for credit	Miscellaneous—Workplace Experience	22998	G	1
24.0121	Summer Abroad	Miscellaneous—Other	22999	X	1
24.0122	Domestic/Foreign Travel/Study	Miscellaneous—Other	22999	G	1
24.0141	Gifted and Talented Program	Miscellaneous—Other	22999	X	1
24.0151	Non-Specific College Level Studies	Miscellaneous—Other	22999	C	1

See notes at end of table.

**Table A-1. CSSC/SCED Crosswalk—Continued**

<b>CSSC Code</b>	<b>CSSC Course Title(s)</b>	<b>SCED Course Title</b>	<b>SCED Code</b>	<b>Rigor</b>	<b>Sequence</b>
24.0153	Non-Specific High School Level Studies	Miscellaneous—Other	22999	G	1
24.0161	Academic Decathlon	Miscellaneous—Other	22999	G	1
24.0162	Academic Competition	Miscellaneous—Other	22999	G	1
24.0163	Senior Project	Miscellaneous—Other	22999	G	1
32.0121	Off-Campus Vo Tech Training - Unspecified	Miscellaneous—Other	22999	G	1
32.0131	Coordinated Vocational and Academic Education (CVAE)	Miscellaneous—Other	22999	G	1
32.0141	Joint Effort Training	Miscellaneous—Other	22999	X	1
32.0242	Homeroom	Miscellaneous—Other	22999	X	1
32.0243	Advisory	Miscellaneous—Other	22999	X	1
33.0100	Citizenship/Civic Activities, Other	Miscellaneous—Other	22999	X	1
33.0152	EAST; EAST Lab	Miscellaneous—Other	22999	G	1
52.0501	Homebound (Home or Hospital for More than 10 Days)	Miscellaneous—Other	22999	G	1
60.0000	Uncodeable		99999		
24.0152	Specific College Level Studies		NA	C	1
99.0000					

NOTE: Courses with "Pre-IB" in the course title are offered in preparation for the International Baccalaureate (IB) program. Pre-IB courses were identified using course-level attribute variables found on the restricted-use school catalog and student transcript data files. Since 2009, NCES has not used CSSC codes for pre-IB courses when coding transcripts.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, High School Transcript Study (HSTS), 1987, 1990, 1994, 1998, 2000, 2005, 2009, High School and Beyond (HS&B), 1982.

## Appendix B: Standard Errors for Tables 1–8

**Table B-1. Standard errors for table 1: Percentage distribution of high school graduates by grade span of school attended as 10th-graders: 1982, 1992, and 2004**

<b>Lowest grade offered in school attended in 10th grade</b>	<b>1982</b>	<b>1992</b>	<b>2004</b>
<b>Total</b>	†	†	†
Grade 5 or lower	1.09	0.82	0.83
Grades 6–8	1.06	0.98	0.99
Grade 9	1.97	1.67	1.32
Grade 10	1.73	1.35	0.72
Missing	0.43	†	0.34

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; and Education Longitudinal Study of 2002 (ELS:2002), First Follow-up and High School Transcript Study.

**Table B-2. Standard errors for table 2: Percentage distribution of high school graduates' selected characteristics and average number of credits earned in selected subjects, by sample: 1982**

<b>Selected characteristics</b>	<b>All 1982 high school graduates</b>	<b>All 1982 high school graduates minus those attending 10–12 grade span schools in 10th grade</b>
<b>Total</b>	<b>†</b>	<b>†</b>
Sex		
Male	0.68	0.83
Female	0.68	0.83
Race/ethnicity		
White	0.94	1.09
Black	0.69	0.77
Hispanic	0.43	0.53
Asian/Pacific Islander	0.19	0.25
American Indian/Alaska Native	0.24	0.26
Other	0.16	0.19
Parents' education		
Did not complete high school	0.75	0.89
High school credential	0.34	0.39
Less than 2 years of trade school	0.40	0.48
2 or more years of trade school	0.40	0.46
Less than 2 years of college	0.43	0.50
2 or more years of college	0.49	0.60
Bachelor's degree	0.43	0.50
Master's or higher degree	0.37	0.46
Don't know	0.49	0.56
Not applicable	0.30	0.37
Family socioeconomic status		
Lowest 25 percent	0.72	0.84
Lower middle 25 percent	0.64	0.77
Upper middle 25 percent	0.66	0.77
Highest 25 percent	0.81	0.98
Missing	0.25	0.27
Not applicable	0.55	0.60
10th-grade school sector		
Public	0.74	0.91
Religious	0.46	0.60
Private, other	0.68	0.94
Missing	0.39	†
10th-grade school urbanicity		
Urban	1.49	1.60
Suburban	1.99	2.35
Rural	1.88	2.26

See notes at end of table.

**Table B-2. Standard errors for table 2: Percentage distribution of high school graduates' selected characteristics and average number of credits earned in selected subjects, by sample: 1982—Continued**

<b>Selected characteristics</b>	<b>All 1982 high school graduates</b>	<b>All 1982 high school graduates minus those attending 10–12 grade span schools in 10th grade</b>
10th-grade mathematics proficiency level		
Lowest 25 percent	0.70	0.82
Lower middle 25 percent	0.64	0.75
Upper middle 25 percent	0.61	0.73
Highest 25 percent	0.75	0.90
Missing	0.57	0.73
Not applicable	0.55	0.60
Educational expectations in 10th grade		
Not complete high school	0.10	0.12
High school credential	0.63	0.74
Less than 2 years of trade school	0.36	0.45
2 or more years of trade school	0.44	0.51
Less than 2 years of college	0.21	0.25
2 or more years of college	0.43	0.49
Bachelor's degree	0.61	0.75
Master's degree	0.38	0.44
Other graduate or professional degree	0.43	0.50
Multiple response	0.13	0.15
Refused	0.11	0.13
Missing	0.65	0.70
Average total number of credits earned		
English	0.03	0.03
Math	0.03	0.03
Science	0.03	0.03
Social studies	0.03	0.03

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study.



**Table B-3. Standard errors for table 3: Percentage distribution of high school graduates' selected characteristics and average number of credits earned in selected subjects, by sample: 1992**

<b>Selected characteristics</b>	<b>All 1992 high school graduates</b>	<b>All 1992 high school graduates minus those attending 10–12 grade span schools in 10th grade</b>
<b>Total</b>	†	†
Sex		
Male	0.97	0.78
Female	0.97	0.78
Race/ethnicity		
White	1.14	1.22
Black	0.83	0.90
Hispanic	0.73	0.75
Asian/Pacific Islander	0.32	0.36
American Indian/Alaska Native	0.15	0.18
Missing	†	†
Parents' education		
Did not complete high school	0.46	0.53
High school credential	0.83	0.73
Some college	1.00	0.88
Bachelor's degree	0.70	0.64
Master's degree	0.77	0.46
Graduate or professional degree	0.61	0.38
Don't know	0.23	0.30
Missing	0.04	†
Family socioeconomic status		
Lowest 25 percent	0.76	0.80
Lower middle 25 percent	0.87	0.78
Upper middle 25 percent	0.77	0.79
Highest 25 percent	1.20	1.02
Missing	0.39	†
10th-grade school sector		
Public	1.07	0.83
Catholic	0.59	0.74
Private, other religious	0.29	0.38
Private, not religious	0.21	0.27
Private, not ascertained	†	†
Missing	0.28	†
10th-grade school urbanicity		
Urban	1.50	1.59
Suburban	1.86	1.98
Rural	1.80	2.02
Missing	†	†

See notes at end of table.

**Table B-3. Standard errors for table 3: Percentage distribution of high school graduates' selected characteristics and average number of credits earned in selected subjects, by sample: 1992—Continued**

<b>Selected characteristics</b>	<b>All 1992 high school graduates</b>	<b>All 1992 high school graduates minus those attending 10–12 grade span schools in 10th grade</b>
10th-grade mathematics proficiency level		
Below level 1	0.70	0.48
Level 1	0.73	0.66
Level 2	0.48	0.52
Level 3	0.68	0.67
Level 4	0.93	0.73
Missing	0.57	0.59
Test not completed	0.67	0.39
Educational expectations in 10th grade		
Not complete high school	0.04	0.05
High school credential	0.36	0.40
Less than 2 years of trade school	0.28	0.27
2 or more years of trade school	0.44	0.34
Less than 2 years of college	0.42	0.23
2 or more years of college	0.80	0.63
Bachelor's degree	0.88	0.77
Master's degree	0.83	0.64
Other graduate or professional degree	0.86	0.50
Refused	0.02	0.03
Missing	0.09	0.11
Average total number of credits earned		
English	0.02	0.02
Math	0.03	0.02
Science	0.03	0.03
Social studies	0.02	0.02

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study.

**Table B-4. Standard errors for table 4: Percentage distribution of high school graduates' selected characteristics and average number of credits earned in selected subjects, by sample: 2004**

<b>Selected characteristics</b>	<b>All 2004 high school graduates</b>	<b>All 2004 high school graduates minus those attending 10–12 grade span schools in 10th grade</b>
<b>Total</b>	<b>†</b>	<b>†</b>
Sex		
Male	0.66	0.67
Female	0.66	0.67
Race/ethnicity		
White	0.94	1.00
Black	0.61	0.64
Hispanic	0.71	0.75
Asian/Pacific Islander	0.29	0.29
American Indian/Alaska Native	0.20	0.21
Two or more races	0.27	0.28
Parents' education		
Did not finish high school	0.33	0.35
Earned a high school credential	0.59	0.59
Attended 2-year school, no degree	0.43	0.43
Graduated from 2-year school	0.45	0.46
Attended 4-year college, no bachelor's degree	0.37	0.40
Earned a bachelor's degree	0.57	0.58
Completed master's degree or equivalent	0.49	0.50
Completed graduate or professional degree	0.33	0.34
Family socioeconomic status		
Lowest 25 percent	0.60	0.62
Lower middle 25 percent	0.58	0.59
Upper middle 25 percent	0.49	0.50
Highest 25 percent	0.74	0.77
Not applicable	0.28	0.29
Missing	0.42	0.42
10th-grade school sector		
Public	0.31	0.34
Catholic	0.18	0.20
Other private	0.26	0.28
Missing	†	†
10th-grade school urbanicity		
Urban	0.92	1.04
Suburban	0.94	1.08
Rural	0.77	0.89

See notes at end of table.

**Table B-4. Standard errors for table 4: Percentage distribution of high school graduates' selected characteristics and average number of credits earned in selected subjects, by sample: 2004—Continued**

<b>Selected characteristics</b>	<b>All 2004 high school graduates</b>	<b>All 2004 high school graduates minus those attending 10–12 grade span schools in 10th grade</b>
10th-grade math achievement		
Lowest 25 percent	0.60	0.62
Lower middle 25 percent	0.56	0.57
Upper middle 25 percent	0.56	0.56
Highest 25 percent	0.70	0.74
Not applicable	0.28	0.29
Educational expectations in 10th grade		
Not complete high school	0.07	0.08
High school credential	0.26	0.27
Attend 2-year institution, may not complete	0.29	0.31
Attend college, not complete 4-year degree	0.19	0.19
Bachelor's degree	0.57	0.60
Master's degree	0.51	0.53
Other graduate or professional degree	0.48	0.51
Not applicable	0.28	0.29
Don't know	0.37	0.37
Missing	0.42	0.42
Highest math course taken in high school		
No math	0.13	0.14
Pre-algebra, general, or consumer math	0.27	0.28
Algebra 1	0.33	0.35
Geometry	0.50	0.52
Algebra 2	0.67	0.69
Trigonometry, precalculus, or calculus	0.81	0.85
Not applicable	0.04	†
Nonrespondent	0.21	†
Missing	0.13	†
Average total number of credits earned		
English	0.03	0.03
Math	0.02	0.02
Science	0.02	0.02
Social studies	0.03	0.03

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), First Follow-up and High School Transcript Study.

**Table B-5. Standard errors for table 5: Average total English credits earned by high school graduates, by course classification system and selected student and school characteristics: 1982, 1992, 2004, and 2013**

Selected student and school characteristics	1982		1992		2004		2013
	CSSC	SCED	CSSC	SCED	CSSC	SCED	SCED
<b>Total</b>	<b>0.03</b>	<b>0.03</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.03</b>
Sex							
Male	0.03	0.03	0.02	0.02	0.03	0.03	0.03
Female	0.03	0.03	0.02	0.02	0.02	0.03	0.03
Race/ethnicity							
White	0.03	0.03	0.02	0.02	0.02	0.02	0.02
Black	0.06	0.06	0.05	0.05	0.05	0.05	0.11
Hispanic	0.05	0.05	0.06	0.06	0.05	0.05	0.05
Asian/Pacific Islander	0.06	0.09	0.04	0.03	0.05	0.05	0.06
American Indian/Alaska Native	0.12	0.12	0.13	0.09	0.25	0.24	0.28
Parents' highest education							
High school or less	0.03	0.03	0.03	0.03	0.03	0.04	†
Some college	0.04	0.04	0.02	0.02	0.03	0.03	†
Bachelor's degree or higher	0.04	0.04	0.02	0.02	0.03	0.03	†
Educational expectations in high school senior year							
High school or less	0.05	0.05	0.10	0.10	0.09	0.09	0.07
Some college	0.04	0.04	0.02	0.03	0.04	0.04	0.04
Bachelor's degree	0.04	0.04	0.03	0.03	0.03	0.03	0.03
Graduate or professional degree	0.04	0.04	0.02	0.02	0.02	0.02	0.03
School sector in high school senior year							
Public	0.03	0.03	0.02	0.02	0.02	0.02	0.03
Private	0.16	0.16	0.05	0.05	0.05	0.05	0.08

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table B-6. Standard errors for table 6: Average total mathematics credits earned by high school graduates, by course-coding system and selected student and school characteristics: 1982, 1992, 2004, and 2013**

Selected student and school characteristics	1982		1992		2004		2013
	CSSC	SCED	CSSC	SCED	CSSC	SCED	SCED
<b>Total</b>	<b>0.03</b>	<b>0.03</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
Sex							
Male	0.03	0.03	0.04	0.04	0.03	0.02	0.03
Female	0.03	0.03	0.02	0.02	0.03	0.02	0.03
Race/ethnicity							
White	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Black	0.05	0.05	0.06	0.06	0.05	0.05	0.06
Hispanic	0.05	0.05	0.06	0.05	0.05	0.05	0.05
Asian/Pacific Islander	0.10	0.10	0.07	0.07	0.05	0.04	0.06
American Indian/Alaska Native	0.14	0.14	0.10	0.11	0.18	0.14	0.18
Parents' highest education							
High school or less	0.03	0.03	0.03	0.03	0.03	0.03	†
Some college	0.04	0.03	0.03	0.03	0.03	0.03	†
Bachelor's degree or higher	0.05	0.05	0.06	0.06	0.03	0.03	†
Educational expectations in high school senior year							
High school or less	0.05	0.04	0.07	0.08	0.07	0.06	0.08
Some college	0.04	0.03	0.03	0.03	0.03	0.03	0.05
Bachelor's degree	0.04	0.03	0.04	0.04	0.03	0.03	0.03
Graduate or professional degree	0.04	0.04	0.04	0.04	0.03	0.03	0.03
School sector in high school senior year							
Public	0.03	0.03	0.02	0.02	0.03	0.02	0.03
Private	0.11	0.11	0.13	0.13	0.04	0.03	0.05

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table B-7. Standard errors for table 7: Average total science credits earned by high school graduates, by course-coding system and selected student and school characteristics: 1982, 1992, 2004, and 2013**

Selected student and school characteristics	1982		1992		2004		2013
	CSSC	SCED	CSSC	SCED	CSSC	SCED	SCED
<b>Total</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.02</b>	<b>0.02</b>	<b>0.03</b>
Sex							
Male	0.03	0.03	0.04	0.04	0.02	0.02	0.03
Female	0.03	0.03	0.03	0.03	0.02	0.02	0.03
Race/ethnicity							
White	0.03	0.03	0.03	0.03	0.02	0.02	0.03
Black	0.05	0.05	0.07	0.07	0.04	0.04	0.05
Hispanic	0.04	0.04	0.04	0.04	0.04	0.04	0.05
Asian/Pacific Islander	0.11	0.11	0.09	0.09	0.06	0.06	0.10
American Indian/Alaska Native	0.14	0.14	0.11	0.11	0.22	0.21	0.16
Parents' highest education							
High school or less	0.03	0.03	0.04	0.04	0.03	0.03	†
Some college	0.04	0.04	0.04	0.03	0.03	0.03	†
Bachelor's degree or higher	0.05	0.05	0.04	0.04	0.03	0.03	†
Educational expectations in high school senior year							
High school or less	0.04	0.04	0.08	0.08	0.06	0.06	0.05
Some college	0.03	0.03	0.03	0.03	0.03	0.03	0.04
Bachelor's degree	0.04	0.04	0.04	0.04	0.02	0.02	0.03
Graduate or professional degree	0.05	0.05	0.04	0.04	0.03	0.03	0.04
School sector in high school senior year							
Public	0.03	0.03	0.03	0.03	0.02	0.02	0.03
Private	0.08	0.08	0.09	0.09	0.04	0.04	0.06

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table B-8. Standard errors for table 8: Average total social studies/history credits earned by high school graduates, by course-coding system and selected student and school characteristics: 1982, 1992, 2004, and 2013**

Selected student and school characteristics	1982		1992		2004		2013
	CSSC	SCED	CSSC	SCED	CSSC	SCED	SCED
<b>Total</b>	<b>0.03</b>	<b>0.03</b>	<b>0.02</b>	<b>0.02</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>
Sex							
Male	0.04	0.03	0.03	0.03	0.03	0.03	0.03
Female	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Race/ethnicity							
White	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Black	0.08	0.06	0.06	0.06	0.05	0.05	0.06
Hispanic	0.04	0.04	0.07	0.07	0.05	0.05	0.05
Asian/Pacific Islander	0.10	0.09	0.06	0.05	0.06	0.07	0.09
American Indian/Alaska Native	0.13	0.12	0.12	0.12	0.28	0.27	0.38
Parents' highest education							
High school or less	0.04	0.03	0.03	0.03	0.04	0.03	0.03
Some college	0.04	0.03	0.03	0.03	0.03	0.03	0.04
Bachelor's degree or higher	0.05	0.04	0.05	0.05	0.03	0.04	0.03
Educational expectations in high school senior year							
High school or less	0.04	0.04	0.07	0.07	0.07	0.07	0.08
Some college	0.04	0.04	0.05	0.05	0.04	0.04	0.04
Bachelor's degree	0.04	0.03	0.03	0.03	0.03	0.03	0.03
Graduate or professional degree	0.05	0.04	0.03	0.03	0.03	0.03	0.03
School sector in high school senior year							
Public	0.03	0.03	0.02	0.02	0.03	0.03	0.03
Private	0.10	0.10	0.07	0.08	0.07	0.07	0.08

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.



## **Appendix C: Tables for SCED-Based Estimates of High School Coursetaking Over Time and Their Standard Errors**

**Table C-1. Average total credits and total academic credits earned by high school graduates, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	Average total credits				Average total academic credits <sup>1</sup>			
	1982	1992	2004	2013	1982	1992	2004	2013
<b>Total</b>	<b>22.0</b>	<b>24.1</b>	<b>25.9</b>	<b>26.7</b>	<b>14.7</b>	<b>17.4</b>	<b>19.1</b>	<b>19.8</b>
Sex								
Male	21.8	23.9	25.8	26.5	14.5	17.0	18.4	19.2
Female	22.1	24.2	26.0	26.9	14.9	17.9	19.6	20.4
Race/ethnicity <sup>2</sup>								
White	22.0	24.1	26.1	26.9	14.9	17.5	19.3	19.9
Black	21.5	23.7	25.7	27.2	14.0	16.9	18.4	20.0
Hispanic	21.8	24.2	25.3	26.1	13.6	17.2	18.3	19.3
Asian/Pacific Islander	22.9	24.8	25.9	26.8	16.2	18.3	20.0	21.0
American Indian/Alaska Native	21.1	23.8	25.6	26.3	13.4	15.8	17.4	18.9
Parents' highest education <sup>3</sup>								
High school or less	21.7	23.5	25.7	26.4	13.7	16.2	18.0	†
Some college	22.2	24.2	25.8	26.7	15.3	17.2	18.6	†
Bachelor's degree or higher	22.4	24.5	26.1	27.1	16.5	19.1	20.0	†
Educational expectations in high school senior year <sup>4</sup>								
High school or less	21.2	23.3	24.9	25.6	12.4	14.6	16.0	17.6
Some college	21.9	23.5	25.4	26.3	13.7	15.2	17.1	18.6
Bachelor's degree	22.3	24.3	26.0	26.8	16.1	18.2	19.3	19.9
Graduate or professional degree	22.6	24.6	26.4	27.2	17.0	19.1	20.5	20.9
School sector in high school senior year								
Public	21.8	23.9	25.9	26.7	14.4	17.3	18.9	19.7
Private	23.6	25.2	26.6	27.8	17.1	19.1	20.4	21.2

† Not applicable.

<sup>1</sup> Academic credits are those earned in English, mathematics, science, social sciences, fine and performing arts, and foreign languages.<sup>2</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>3</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>4</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-1. Standard errors for table C-1: Average total credits and total academic credits earned by high school graduates, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	Average total credits				Average total academic credits			
	1982	1992	2004	2013	1982	1992	2004	2013
<b>Total</b>	<b>0.13</b>	<b>0.09</b>	<b>0.09</b>	<b>0.11</b>	<b>0.10</b>	<b>0.09</b>	<b>0.08</b>	<b>0.09</b>
Sex								
Male	0.14	0.13	0.11	0.12	0.12	0.13	0.09	0.10
Female	0.14	0.10	0.10	0.13	0.11	0.10	0.09	0.10
Race/ethnicity								
White	0.15	0.10	0.11	0.13	0.11	0.10	0.09	0.10
Black	0.20	0.33	0.21	0.36	0.23	0.34	0.16	0.28
Hispanic	0.21	0.25	0.22	0.21	0.16	0.35	0.18	0.18
Asian/Pacific Islander	0.25	0.19	0.20	0.38	0.27	0.32	0.23	0.25
American Indian/Alaska Native	0.31	0.43	0.65	0.63	0.24	0.34	0.53	0.59
Parents' highest education								
High school or less	0.14	0.14	0.13	0.14	0.11	0.16	0.11	†
Some college	0.17	0.14	0.11	0.19	0.13	0.11	0.10	†
Bachelor's degree or higher	0.16	0.12	0.12	0.14	0.18	0.10	0.10	†
Educational expectations in high school senior year								
High school or less	0.21	0.45	0.23	0.31	0.15	0.27	0.21	0.22
Some college	0.20	0.15	0.14	0.15	0.13	0.13	0.12	0.14
Bachelor's degree	0.12	0.12	0.11	0.16	0.13	0.12	0.10	0.12
Graduate or professional degree	0.15	0.13	0.11	0.13	0.16	0.13	0.09	0.11
School sector in high school senior year								
Public	0.13	0.10	0.10	0.13	0.11	0.10	0.08	0.10
Private	0.58	0.31	0.23	0.54	0.44	0.25	0.20	0.49

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-2. Average total English credits earned by high school graduates, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>3.9</b>	<b>4.1</b>	<b>4.2</b>	<b>4.3</b>
Sex				
Male	3.8	4.1	4.2	4.3
Female	3.9	4.2	4.2	4.3
Race/ethnicity <sup>1</sup>				
White	3.9	4.1	4.1	4.2
Black	4.0	4.2	4.3	4.7
Hispanic	3.9	4.3	4.5	4.4
Asian/Pacific Islander	4.0	4.1	4.3	4.4
American Indian/Alaska Native	3.8	4.1	4.3	4.8
Parents' highest education <sup>2</sup>				
High school or less	3.8	4.1	4.2	†
Some college	3.9	4.1	4.2	†
Bachelor's degree or higher	3.9	4.2	4.2	†
Educational expectations in high school senior year <sup>3</sup>				
High school or less	3.8	4.1	4.1	4.4
Some college	3.8	4.0	4.2	4.3
Bachelor's degree	4.0	4.2	4.2	4.3
Graduate or professional degree	4.0	4.2	4.2	4.3
School sector in high school senior year				
Public	3.8	4.1	4.2	4.3
Private	4.2	4.3	4.3	4.3

† Not applicable.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: All 1982, 1992, 2004, and 2013 high school graduates took English courses. Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-2. Standard errors for table C-2: Average total English credits earned by high school graduates, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>0.03</b>	<b>0.02</b>	<b>0.02</b>	<b>0.03</b>
Sex				
Male	0.03	0.02	0.03	0.03
Female	0.03	0.02	0.03	0.03
Race/ethnicity				
White	0.03	0.02	0.02	0.02
Black	0.06	0.05	0.05	0.11
Hispanic	0.05	0.06	0.05	0.05
Asian/Pacific Islander	0.09	0.03	0.05	0.06
American Indian/Alaska Native	0.12	0.09	0.24	0.28
Parents' highest education				
High school or less	0.03	0.03	0.04	†
Some college	0.04	0.02	0.03	†
Bachelor's degree or higher	0.04	0.02	0.03	†
Educational expectations in high school senior year				
High school or less	0.05	0.10	0.09	0.07
Some college	0.04	0.03	0.04	0.04
Bachelor's degree	0.04	0.03	0.03	0.03
Graduate or professional degree	0.04	0.02	0.02	0.03
School sector in high school senior year				
Public	0.03	0.02	0.02	0.03
Private	0.16	0.05	0.05	0.08

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-3. Average total mathematics credits earned by high school graduates, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>2.7</b>	<b>3.3</b>	<b>3.6</b>	<b>3.9</b>
Sex				
Male	2.8	3.4	3.6	3.9
Female	2.7	3.3	3.6	3.9
Race/ethnicity <sup>1</sup>				
White	2.8	3.3	3.6	3.9
Black	2.7	3.4	3.7	4.1
Hispanic	2.5	3.3	3.4	3.8
Asian/Pacific Islander	3.3	3.5	3.8	4.1
American Indian/Alaska Native	2.4	3.0	3.2	3.9
Parents' highest education <sup>2</sup>				
High school or less	2.5	3.1	3.4	†
Some college	2.9	3.3	3.5	†
Bachelor's degree or higher	3.2	3.6	3.7	†
Educational expectations in high school senior year <sup>3</sup>				
High school or less	2.1	2.8	3.3	3.7
Some college	2.4	2.9	3.2	3.8
Bachelor's degree	3.2	3.5	3.6	3.9
Graduate or professional degree	3.4	3.7	3.8	4.0
School sector in high school senior year				
Public	2.7	3.3	3.6	3.9
Private	3.4	3.8	3.8	4.0

† Not applicable.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Almost all 1982, 1992, 2004, and 2013 high school graduates (99.9 to 100 percent) took mathematics courses. Estimates of mathematics credits earned are based on those who took mathematics courses. Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data, a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-3. Standard errors for table C-3: Average total mathematics credits earned by high school graduates, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>0.03</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
Sex				
Male	0.03	0.04	0.02	0.03
Female	0.03	0.02	0.02	0.03
Race/ethnicity				
White	0.03	0.03	0.03	0.03
Black	0.05	0.06	0.05	0.06
Hispanic	0.05	0.06	0.05	0.05
Asian/Pacific Islander	0.10	0.07	0.04	0.06
American Indian/Alaska Native	0.14	0.11	0.14	0.18
Parents' highest education				
High school or less	0.03	0.03	0.03	†
Some college	0.03	0.03	0.03	†
Bachelor's degree or higher	0.05	0.06	0.03	†
Educational expectations in high school senior year				
High school or less	0.04	0.07	0.06	0.08
Some college	0.03	0.03	0.03	0.05
Bachelor's degree	0.03	0.04	0.03	0.03
Graduate or professional degree	0.04	0.04	0.03	0.03
School sector in high school senior year				
Public	0.03	0.02	0.02	0.03
Private	0.11	0.13	0.03	0.05

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-4. Average total science credits earned by high school graduates, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>2.3</b>	<b>3.0</b>	<b>3.3</b>	<b>3.6</b>
Sex				
Male	2.4	3.0	3.3	3.5
Female	2.3	3.0	3.4	3.6
Race/ethnicity <sup>1</sup>				
White	2.4	3.1	3.4	3.6
Black	2.1	2.9	3.3	3.6
Hispanic	2.0	2.7	3.0	3.4
Asian/Pacific Islander	2.7	3.3	3.7	4.1
American Indian/Alaska Native	2.2	2.7	3.0	3.3
Parents' highest education <sup>2</sup>				
High school or less	2.1	2.7	3.1	†
Some college	2.5	3.0	3.2	†
Bachelor's degree or higher	2.7	3.4	3.5	†
Educational expectations in high school senior year <sup>3</sup>				
High school or less	1.8	2.4	2.8	3.1
Some college	2.0	2.5	2.9	3.3
Bachelor's degree	2.6	3.1	3.4	3.6
Graduate or professional degree	3.0	3.5	3.7	3.9
School sector in high school senior year				
Public	2.3	3.0	3.3	3.6
Private	2.6	3.2	3.6	3.8

† Not applicable.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Almost all 1982, 1992, 2004, and 2013 high school graduates (98 to 100 percent) took science courses. Estimates of science credits earned are based on those who took science courses. Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data, a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.



**Table SC-4. Standard errors for table C-4: Average total science credits earned by high school graduates, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>0.03</b>	<b>0.03</b>	<b>0.02</b>	<b>0.03</b>
Sex				
Male	0.03	0.04	0.02	0.03
Female	0.03	0.03	0.02	0.03
Race/ethnicity				
White	0.03	0.03	0.02	0.03
Black	0.05	0.08	0.04	0.05
Hispanic	0.04	0.05	0.03	0.05
Asian/Pacific Islander	0.11	0.10	0.06	0.10
American Indian/Alaska Native	0.14	0.12	0.20	0.16
Parents' highest education				
High school or less	0.03	0.04	0.03	†
Some college	0.04	0.03	0.03	†
Bachelor's degree or higher	0.05	0.04	0.03	†
Educational expectations in high school senior year				
High school or less	0.04	0.09	0.05	0.05
Some college	0.03	0.03	0.03	0.04
Bachelor's degree	0.04	0.04	0.02	0.03
Graduate or professional degree	0.05	0.04	0.03	0.04
School sector in high school senior year				
Public	0.03	0.03	0.02	0.03
Private	0.08	0.09	0.04	0.06

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-5. Average total social science/history credits earned by high school graduates, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>3.2</b>	<b>3.5</b>	<b>3.8</b>	<b>3.9</b>
Sex				
Male	3.2	3.5	3.8	3.9
Female	3.2	3.5	3.9	4.0
Race/ethnicity <sup>1</sup>				
White	3.2	3.5	3.9	3.9
Black	3.1	3.5	3.7	3.9
Hispanic	3.1	3.3	3.7	3.9
Asian/Pacific Islander	3.1	3.5	3.8	4.0
American Indian/Alaska Native	3.2	3.6	3.8	3.7
Parents' highest education <sup>2</sup>				
High school or less	3.2	3.4	3.8	†
Some college	3.2	3.5	3.8	†
Bachelor's degree or higher	3.3	3.7	3.9	†
Educational expectations in high school senior year <sup>3</sup>				
High school or less	3.1	3.2	3.5	3.7
Some college	3.2	3.4	3.6	3.7
Bachelor's degree	3.3	3.6	3.8	3.9
Graduate or professional degree	3.3	3.6	4.0	4.1
School sector in high school senior year				
Public	3.1	3.5	3.8	3.9
Private	3.7	3.8	4.0	4.0

† Not applicable.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Almost all 1982, 1992, 2004, and 2013 high school graduates (99.8 to 100 percent) took social science/history courses. Estimates of social science/history credits earned are based on those who took social science/history courses. Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-5. Standard errors for table C-5: Average total social science/history credits earned by high school graduates, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>0.03</b>	<b>0.02</b>	<b>0.03</b>	<b>0.03</b>
Sex				
Male	0.03	0.03	0.03	0.03
Female	0.03	0.03	0.03	0.03
Race/ethnicity				
White	0.03	0.03	0.03	0.03
Black	0.06	0.06	0.04	0.06
Hispanic	0.04	0.07	0.05	0.05
Asian/Pacific Islander	0.09	0.05	0.06	0.09
American Indian/Alaska Native	0.12	0.12	0.26	0.38
Parents' highest education				
High school or less	0.03	0.03	0.03	†
Some college	0.03	0.03	0.03	†
Bachelor's degree or higher	0.04	0.05	0.03	†
Educational expectations in high school senior year				
High school or less	0.04	0.06	0.06	0.08
Some college	0.04	0.05	0.04	0.04
Bachelor's degree	0.03	0.03	0.03	0.03
Graduate or professional degree	0.04	0.03	0.03	0.03
School sector in high school senior year				
Public	0.03	0.02	0.03	0.03
Private	0.10	0.08	0.07	0.08

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-6. Percentage of high school graduates who took any foreign language courses; and among those students, average total foreign language credits earned, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	Percentage who took foreign language courses				Average total foreign language credits earned <sup>1</sup>			
	1982	1992	2004	2013	1982	1992	2004	2013
<b>Total</b>	<b>56.5</b>	<b>79.9</b>	<b>86.4</b>	<b>89.6</b>	<b>2.0</b>	<b>2.2</b>	<b>2.3</b>	<b>2.3</b>
Sex								
Male	49.3	75.3	82.7	86.4	1.9	2.1	2.2	2.2
Female	62.7	84.3	89.8	92.6	2.1	2.4	2.4	2.4
Race/ethnicity <sup>2</sup>								
White	58.4	80.0	86.6	89.2	2.1	2.3	2.4	2.3
Black	48.4	72.1	84.4	88.6	1.7	1.9	2.0	2.2
Hispanic	48.7	87.8	86.7	91.8	1.9	2.1	2.2	2.2
Asian/Pacific Islander	75.6	87.4	91.7	92.3	2.4	2.7	2.6	2.7
American Indian/Alaska Native	31.7	54.1	75.0	81.0	1.7	1.7	1.8	1.7
Parents' highest education <sup>3</sup>								
High school or less	45.4	68.7	77.9	85.3	1.8	2.0	2.0	†
Some college	63.0	78.5	84.9	89.2	2.1	2.1	2.2	†
Bachelor's degree or higher	75.3	91.6	92.4	94.2	2.3	2.6	2.5	†
Educational expectations in high school senior year <sup>4</sup>								
High school or less	27.1	48.9	52.7	68.1	1.3	1.5	1.4	1.6
Some college	45.5	61.3	71.5	83.5	1.7	1.6	1.8	1.9
Bachelor's degree	75.4	87.8	91.6	93.5	2.2	2.3	2.3	2.3
Graduate or professional degree	79.0	92.6	95.5	95.4	2.4	2.6	2.7	2.6
School sector in high school senior year								
Public	53.1	78.1	85.5	89.0	1.9	2.2	2.3	2.3
Private	84.0	95.6	96.1	97.3	2.5	2.7	2.8	3.0

† Not applicable.

<sup>1</sup> Estimates of foreign language credits earned are based on those who took foreign language courses.<sup>2</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>3</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>4</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-6. Standard errors for table C-6: Percentage of high school graduates who took any foreign language courses; and among those students, average total foreign language credits earned, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	Percentage who took foreign language courses				Average total foreign language credits earned			
	1982	1992	2004	2013	1982	1992	2004	2013
<b>Total</b>	1.06	0.88	0.60	0.63	0.03	0.03	0.02	0.03
Sex								
Male	1.33	1.42	0.84	0.84	0.04	0.04	0.03	0.03
Female	1.25	0.89	0.62	0.67	0.04	0.04	0.03	0.04
Race/ethnicity								
White	1.17	0.98	0.67	0.66	0.03	0.04	0.03	0.03
Black	2.85	3.15	1.63	1.69	0.08	0.06	0.05	0.08
Hispanic	2.12	1.66	1.62	1.28	0.06	0.08	0.05	0.05
Asian/Pacific Islander	3.32	3.59	1.20	2.06	0.09	0.07	0.06	0.10
American Indian/Alaska Native	5.68	6.41	7.32	7.76	0.16	0.12	0.22	0.19
Parents' highest education								
High school or less	1.43	1.71	1.18	1.04	0.04	0.06	0.03	†
Some college	1.35	1.27	0.86	1.13	0.04	0.05	0.03	†
Bachelor's degree or higher	1.74	1.67	0.53	0.64	0.06	0.05	0.03	†
Educational expectations in high school senior year								
High school or less	1.65	4.37	3.28	3.21	0.06	0.09	0.07	0.07
Some college	1.50	1.94	1.48	1.15	0.04	0.04	0.03	0.04
Bachelor's degree	1.52	0.95	0.57	0.91	0.04	0.05	0.03	0.04
Graduate or professional degree	1.61	0.74	0.46	0.50	0.05	0.05	0.03	0.05
School sector in high school senior year								
Public	1.15	0.94	0.65	0.66	0.03	0.03	0.02	0.03
Private	2.42	1.33	1.17	1.34	0.09	0.11	0.06	0.08

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-7. Percentage of high school graduates who took any fine and performing arts courses; and among those students, average total fine and performing arts credits earned, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	Percentage who took fine and performing arts courses				Average total fine and performing arts credits earned <sup>1</sup>			
	1982	1992	2004	2013	1982	1992	2004	2013
<b>Total</b>	<b>67.7</b>	<b>76.7</b>	<b>85.4</b>	<b>87.2</b>	<b>2.1</b>	<b>2.2</b>	<b>2.4</b>	<b>2.4</b>
Sex								
Male	61.8	72.2	81.0	83.7	2.0	2.1	2.2	2.1
Female	72.8	81.1	89.6	90.5	2.2	2.3	2.6	2.6
Race/ethnicity <sup>2</sup>								
White	67.6	77.6	86.1	86.6	2.2	2.2	2.6	2.6
Black	68.4	67.2	79.6	85.8	1.8	2.2	2.1	2.1
Hispanic	66.5	78.3	87.5	89.5	1.9	2.2	2.1	2.0
Asian/Pacific Islander	68.8	80.2	87.2	89.9	2.0	1.9	2.2	2.1
American Indian/Alaska Native	75.3	77.0	83.7	90.6	1.7	1.9	1.8	2.0
Parents' highest education <sup>3</sup>								
High school or less	66.7	72.5	84.2	87.6	2.0	2.1	2.2	†
Some college	68.0	76.8	84.3	85.2	2.1	2.2	2.4	†
Bachelor's degree or higher	70.3	79.5	87.1	88.4	2.4	2.3	2.6	†
Educational expectations in high school senior year <sup>4</sup>								
High school or less	66.9	69.5	79.2	86.3	2.0	1.8	2.1	1.8
Some college	69.8	71.6	84.1	85.8	2.1	2.1	2.3	2.3
Bachelor's degree	65.0	79.8	86.3	86.8	2.2	2.3	2.5	2.5
Graduate or professional degree	66.3	77.8	86.7	88.2	2.3	2.3	2.5	2.5
School sector in high school senior year								
Public	67.5	76.4	85.1	87.1	2.2	2.2	2.5	2.4
Private	67.8	78.9	89.2	88.9	1.8	1.7	2.2	2.6

† Not applicable.

<sup>1</sup> Estimates of fine and performing arts credits earned are based on those who took fine and performing arts courses.<sup>2</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>3</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>4</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-7. Standard errors for table C-7: Percentage of high school graduates who took any fine and performing arts courses; and among those students, average total fine and performing arts credits earned, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	Percentage who took fine and performing arts courses				Average total fine and performing arts credits earned			
	1982	1992	2004	2013	1982	1992	2004	2013
<b>Total</b>	<b>0.96</b>	<b>0.97</b>	<b>0.75</b>	<b>1.01</b>	<b>0.04</b>	<b>0.05</b>	<b>0.04</b>	<b>0.05</b>
Sex								
Male	1.35	1.58	0.99	1.14	0.05	0.08	0.05	0.06
Female	1.10	0.97	0.83	1.19	0.05	0.05	0.05	0.05
Race/ethnicity								
White	1.08	1.11	0.83	0.97	0.05	0.04	0.04	0.07
Black	2.31	2.81	2.19	1.99	0.08	0.19	0.07	0.11
Hispanic	2.01	2.62	1.33	1.38	0.06	0.28	0.08	0.07
Asian/Pacific Islander	3.27	2.60	1.59	2.77	0.14	0.09	0.09	0.09
American Indian/Alaska Native	4.50	4.37	9.35	6.86	0.21	0.22	0.28	0.28
Parents' highest education								
High school or less	1.36	1.66	1.23	1.11	0.05	0.10	0.05	†
Some college	1.24	1.28	1.01	1.79	0.05	0.05	0.05	†
Bachelor's degree or higher	1.87	2.16	0.84	0.90	0.09	0.07	0.06	†
Educational expectations in high school senior year								
High school or less	1.85	3.32	2.93	1.92	0.07	0.10	0.14	0.09
Some college	1.30	1.88	1.36	1.52	0.06	0.09	0.05	0.06
Bachelor's degree	1.54	1.25	0.93	1.10	0.07	0.08	0.06	0.09
Graduate or professional degree	1.66	2.08	0.99	1.19	0.08	0.10	0.06	0.07
School sector in high school senior year								
Public	0.97	0.89	0.80	0.97	0.04	0.05	0.04	0.04
Private	4.21	5.74	1.86	2.32	0.11	0.07	0.12	0.39

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-8. Percentage of high school graduates who took any computer and information science courses; and among those students, average total computer and information science credits earned, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	Percentage who took computer and information science courses				Average total computer and information science credits earned <sup>1</sup>			
	1982	1992	2004	2013	1982	1992	2004	2013
<b>Total</b>	<b>12.0</b>	<b>49.7</b>	<b>55.3</b>	<b>50.4</b>	<b>0.8</b>	<b>0.8</b>	<b>1.1</b>	<b>1.0</b>
Sex								
Male	13.8	49.0	59.0	53.1	0.8	0.8	1.1	1.1
Female	10.5	50.4	51.7	47.8	0.8	0.8	1.0	1.0
Race/ethnicity <sup>2</sup>								
White	13.2	49.2	53.0	50.8	0.8	0.8	1.1	1.0
Black	9.5	48.7	61.0	52.1	0.8	0.9	1.2	1.1
Hispanic	6.6	54.4	61.3	51.4	0.8	0.9	1.0	1.0
Asian/Pacific Islander	16.5	54.9	56.2	40.7	1.0	0.8	1.2	1.2
American Indian/Alaska Native	‡	43.9	53.1	33.8 !	0.8	0.8	1.0	0.9
Parents' highest education <sup>3</sup>								
High school or less	10.6	52.2	58.5	52.1	0.9	0.8	1.1	†
Some college	13.2	50.7	55.5	52.9	0.8	0.9	1.0	†
Bachelor's degree or higher	15.2	48.3	53.1	48.0	0.7	0.8	1.1	†
Educational expectations in high school senior year <sup>4</sup>								
High school or less	5.8	49.9	54.8	47.4	1.0	0.8	1.0	1.0
Some college	10.7	47.6	55.8	54.7	0.8	0.8	1.1	1.0
Bachelor's degree	16.3	54.4	56.7	51.2	0.8	0.8	1.1	1.1
Graduate or professional degree	15.2	47.9	53.8	48.3	0.7	0.8	1.1	1.0
School sector in high school senior year								
Public	11.8	48.8	54.7	50.1	0.8	0.9	1.1	1.1
Private	14.2	58.3	60.8	54.6	0.7	0.7	0.9	0.8

† Not applicable.

! Interpret data with caution. Estimate is unstable because the standard error is between 30 and 50 percent of the estimate.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate, or the standard error is 50 percent of the estimate or larger.

<sup>1</sup> Estimates of computer and information science credits earned are based on those who took computer and information science courses.<sup>2</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>3</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately.

Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.

<sup>4</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.



**Table SC-8. Standard errors for table C-8: Percentage of high school graduates who took any computer and information science courses; and among those students, average total computer and information science credits earned, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	Percentage who took computer and information science courses				Average total computer and information science credits earned			
	1982	1992	2004	2013	1982	1992	2004	2013
<b>Total</b>	<b>0.67</b>	<b>1.30</b>	<b>1.51</b>	<b>1.81</b>	<b>0.04</b>	<b>0.01</b>	<b>0.02</b>	<b>0.02</b>
Sex								
Male	0.89	1.71	1.49	2.02	0.05	0.02	0.03	0.03
Female	0.72	1.51	1.76	1.92	0.04	0.02	0.02	0.03
Race/ethnicity								
White	0.80	1.51	1.77	1.90	0.04	0.02	0.03	0.03
Black	1.31	3.49	2.42	3.00	0.07	0.05	0.04	0.04
Hispanic	0.81	3.34	3.01	3.63	0.04	0.04	0.04	0.04
Asian/Pacific Islander	2.80	3.84	2.78	3.42	0.25	0.03	0.07	0.08
American Indian/Alaska Native	†	8.45	9.99	11.70	0.16	0.13	0.14	0.20
Parents' highest education								
High school or less	0.88	2.13	1.75	2.30	0.07	0.03	0.03	†
Some college	0.95	1.71	1.78	2.54	0.05	0.02	0.03	†
Bachelor's degree or higher	1.42	2.09	1.75	1.89	0.03	0.02	0.03	†
Educational expectations in high school senior year								
High school or less	0.78	4.45	3.11	3.50	0.14	0.04	0.08	0.05
Some college	0.89	2.06	2.01	2.48	0.06	0.03	0.04	0.04
Bachelor's degree	1.29	2.03	1.79	2.10	0.05	0.03	0.03	0.04
Graduate or professional degree	1.31	1.89	1.81	1.96	0.04	0.02	0.03	0.02
School sector in high school senior year								
Public	0.72	1.33	1.62	1.86	0.04	0.01	0.02	0.02
Private	1.92	5.21	2.93	5.19	0.13	0.04	0.04	0.04

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-9. Percentage of high school graduates who took any engineering and technology courses; and among those students, average total engineering and technology credits earned, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	Percentage who took engineering and technology courses				Average total engineering and technology credits earned <sup>1</sup>			
	1982	1992	2004	2013	1982	1992	2004	2013
<b>Total</b>	<b>14.0</b>	<b>13.0</b>	<b>19.2</b>	<b>15.9</b>	<b>1.3</b>	<b>1.2</b>	<b>1.2</b>	<b>1.3</b>
Sex								
Male	25.4	21.2	29.1	23.4	1.3	1.3	1.2	1.4
Female	4.1	5.0	9.9	8.7	1.0	0.9	1.0	1.0
Race/ethnicity <sup>2</sup>								
White	13.6	13.9	19.5	18.1	1.3	1.3	1.2	1.3
Black	11.4	7.2	21.1	12.3	1.4	1.2	1.2	1.4
Hispanic	17.3	12.4	15.6	13.0	1.2	1.1	1.1	1.2
Asian/Pacific Islander	21.5	11.6	17.4	11.6	1.3	1.3	1.0	1.2
American Indian/Alaska Native	25.9	‡	37.6	‡	1.8	1.3	1.3	2.1 !
Parents' highest education <sup>3</sup>								
High school or less	14.8	13.3	20.2	15.3	1.2	1.1	1.3	†
Some college	15.0	13.4	22.0	16.4	1.4	1.3	1.2	†
Bachelor's degree or higher	12.0	11.0	16.4	16.2	1.2	1.3	1.1	†
Educational expectations in high school senior year <sup>4</sup>								
High school or less	12.8	13.5	27.0	18.7	1.0	1.1	1.2	1.4
Some college	15.9	15.8	24.1	16.4	1.3	1.2	1.3	1.2
Bachelor's degree	12.5	12.6	20.1	16.7	1.3	1.3	1.2	1.3
Graduate or professional degree	12.3	11.0	15.1	14.3	1.2	1.3	1.2	1.3
School sector in high school senior year								
Public	14.4	13.9	20.4	16.6	1.3	1.2	1.2	1.3
Private	11.4	5.0	6.6	7.6	1.1	1.4	0.9	0.8

† Not applicable.

! Interpret data with caution. Estimate is unstable because the standard error is between 30 and 50 percent of the estimate.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate, or the standard error is 50 percent of the estimate or larger.

<sup>1</sup> Estimates of engineering and technology credits earned are based on those who took engineering and technology courses.<sup>2</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>3</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately.

Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.

<sup>4</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-9. Standard errors for table C-9: Percentage of high school graduates who took any engineering and technology courses; and among those students, average total engineering and technology credits earned, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	Percentage who took engineering and technology courses				Average total engineering and technology credits earned			
	1982	1992	2004	2013	1982	1992	2004	2013
<b>Total</b>	<b>0.63</b>	<b>0.66</b>	<b>1.08</b>	<b>0.98</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>
Sex								
Male	1.11	1.19	1.34	1.17	0.05	0.05	0.04	0.05
Female	0.42	0.62	1.00	0.97	0.05	0.08	0.05	0.07
Race/ethnicity								
White	0.67	0.81	1.23	0.92	0.05	0.05	0.05	0.05
Black	1.51	1.21	2.21	2.08	0.20	0.22	0.08	0.17
Hispanic	1.52	1.50	2.01	2.39	0.08	0.10	0.07	0.15
Asian/Pacific Islander	3.12	1.66	2.05	2.01	0.13	0.10	0.08	0.09
American Indian/Alaska Native	7.18	†	10.07	†	0.44	0.19	0.23	0.78
Parents' highest education								
High school or less	0.96	1.23	1.38	1.39	0.06	0.09	0.06	†
Some college	0.92	0.89	1.34	1.67	0.07	0.06	0.05	†
Bachelor's degree or higher	1.17	1.03	1.15	0.96	0.10	0.08	0.05	†
Educational expectations in high school senior year								
High school or less	1.23	2.05	2.96	2.96	0.06	0.17	0.13	0.24
Some college	0.99	1.35	1.71	1.51	0.07	0.07	0.08	0.09
Bachelor's degree	1.01	0.88	1.30	1.16	0.08	0.07	0.05	0.08
Graduate or professional degree	1.20	1.44	1.20	1.20	0.10	0.07	0.06	0.05
School sector in high school senior year								
Public	0.67	0.70	1.16	1.04	0.05	0.04	0.04	0.04
Private	2.16	1.50	1.76	1.77	0.13	0.27	0.13	0.05

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-10. Percentage distribution of high school graduates' highest level of mathematics course, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	No math	Below algebra 1	Algebra 1	Geometry	Algebra 2	Trigonometry	Other advanced math <sup>1</sup>	Pre-calculus	Calculus
<b>Total</b>									
1982 graduates	‡	20.5	16.8	15.6	18.8	6.9	10.4	5.2	5.7
1992 graduates	‡	8.6	9.7	11.0	26.5	9.7	11.6	11.7	11.2
2004 graduates	‡	3.1	3.8	9.9	22.6	7.4	18.5	20.5	14.2
2013 graduates	‡	1.0	1.7	8.4	24.4	6.7	18.8	21.9	17.0
<b>Among 1982 graduates</b>									
Sex									
Male	‡	9.9	7.3	6.3	8.7	3.4	5.2	2.6	3.0
Female	‡	10.6	9.6	9.3	10.1	3.4	5.2	2.7	2.7
Race/ethnicity <sup>2</sup>									
White	‡	12.9	12.3	12.5	14.9	5.8	8.8	4.5	4.8
Black	‡	3.2	1.8	1.3	1.9	0.4	0.8	0.3	0.2 !
Hispanic	‡	3.8	2.2	1.6	1.6	0.5	0.5	0.3	0.4
Asian/Pacific Islander	‡	‡	‡	0.2	0.3	0.1	0.2	0.2	0.3
American Indian/Alaska Native	‡	0.4 !	0.2 !	‡	‡	‡	‡	‡	‡
Parents' highest education <sup>3</sup>									
High school or less	‡	10.8	7.9	6.3	6.8	2.0	2.9	1.4	1.1
Some college	‡	6.1	6.3	7.0	9.4	3.6	5.3	2.7	3.2
Bachelor's degree or higher	‡	1.3	1.6	2.8	3.3	1.8	2.7	1.7	1.9
Educational expectations in high school senior year <sup>4</sup>									
High school or less	‡	8.8	5.4	2.4	2.0	0.3	0.8	‡	‡
Some college	‡	7.9	7.5	6.6	6.3	1.4	2.4	0.7	0.5
Bachelor's degree	‡	1.8	2.2	4.7	6.4	2.7	4.0	2.3	2.2
Graduate or professional degree	‡	0.9	1.4	2.4	4.4	2.6	3.5	2.3	3.0
School sector in high school senior year									
Public	‡	20.0	16.1	13.8	16.5	5.5	9.0	4.2	4.6
Private	‡	0.5	0.7	1.9	2.3	1.3	1.3	1.1	1.1

See notes at end of table.

**Table C-10. Percentage distribution of high school graduates' highest level of mathematics course, by selected student and school characteristics: 1982, 1992, 2004, and 2013—Continued**

Characteristic	No math	Below algebra 1	Algebra 1	Geometry	Algebra 2	Trigonometry	Other advanced math <sup>1</sup>	Pre- calculus	Calculus
<b>Among 1992 graduates</b>									
Sex									
Male	‡	4.8	5.1	5.4	12.5	4.6	5.5	5.8	5.9
Female	‡	3.8	4.7	5.6	13.9	5.0	6.1	5.9	5.3
Race/ethnicity <sup>2</sup>									
White	‡	6.2	6.7	7.5	20.3	7.7	9.3	9.3	9.1
Black	‡	1.3	1.4	1.8	2.6	0.8	1.1	0.8	0.7 !
Hispanic	‡	0.7	1.2	1.4	2.4	0.7	0.8	0.8	0.5
Asian/Pacific Islander	‡	0.2 !	0.3	0.2	0.9	0.3	0.3	0.8	0.9
American Indian/Alaska Native	‡	‡	‡	‡	0.2	‡	‡	‡	‡
Parents' highest education									
High school or less	‡	4.0	3.6	3.4	7.4	1.9	2.8	1.8	1.2
Some college	‡	3.3	4.3	5.3	11.4	3.9	4.8	4.9	3.7
Bachelor's degree or higher	‡	1.0 !	1.2	2.1	7.2	4.3	3.8	5.7	6.9
Educational expectations in high school senior year <sup>4</sup>									
High school or less	‡	1.4	1.2	0.5	1.1	‡	‡	‡	‡
Some college	‡	4.8	4.5	4.6	6.9	1.2	2.2	0.6	‡
Bachelor's degree	‡	0.9	2.0	3.2	11.4	5.2	5.0	5.5	3.6
Graduate or professional degree	‡	0.9	1.1	2.4	7.3	3.7	4.2	6.0	8.0
School sector in high school senior year									
Public	‡	8.6	9.6	10.4	24.7	8.2	10.1	9.6	8.9
Private	‡	‡	‡	0.5	1.7	1.5 !	1.5	2.0	2.3 !

See notes at end of table.

**Table C-10. Percentage distribution of high school graduates' highest level of mathematics course, by selected student and school characteristics: 1982, 1992, 2004, and 2013—Continued**

Characteristic	No math	Below algebra 1	Algebra 1	Geometry	Algebra 2	Trigonometry	Other advanced math <sup>1</sup>	Pre-calculus	Calculus
<b>Among 2004 graduates</b>									
Sex									
Male	‡	1.9	2.2	5.2	10.7	3.5	8.5	9.3	7.4
Female	‡	1.2	1.6	4.8	11.9	3.9	9.9	11.2	6.9
Race/ethnicity <sup>2</sup>									
White	‡	2.0	2.3	5.8	13.7	4.9	13.1	14.5	10.9
Black	‡	0.5	0.4	1.6	3.6	1.3	2.4	2.3	0.6
Hispanic	‡	0.5	1.0	2.2	4.3	1.0	2.2	2.4	1.1
Asian/Pacific Islander	‡	‡	‡	0.2	0.7	0.2	0.7	1.2	1.6
American Indian/Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡
Parents' highest education									
High school or less	‡	1.4	1.5	3.7	6.8	1.3	4.3	3.5	1.9
Some college	‡	1.1	1.5	3.7	8.4	2.5	7.1	6.6	3.0
Bachelor's degree or higher	‡	0.6	0.8	2.5	7.4	3.6	7.1	10.5	9.3
Educational expectations in high school senior year <sup>4</sup>									
High school or less	‡	0.6	0.6	1.0	1.1	‡	0.6	‡	‡
Some college	‡	1.3	1.5	3.5	5.8	0.9	3.9	1.6	‡
Bachelor's degree	‡	‡	0.8	3.0	9.3	3.4	7.7	9.1	4.3
Graduate or professional degree	‡	‡	0.4	1.8	6.1	3.2	6.3	10.7	10.6
School sector in high school senior year									
Public	‡	3.1	3.8	9.7	21.3	6.4	17.2	18.2	12.0
Private	‡	‡	‡	0.2	1.3	1.0	1.3	2.3	2.2

See notes at end of table.

**Table C-10. Percentage distribution of high school graduates' highest level of mathematics course, by selected student and school characteristics: 1982, 1992, 2004, and 2013—Continued**

Characteristic	No math	Below algebra 1	Algebra 1	Geometry	Algebra 2	Trigonometry	Other advanced math <sup>1</sup>	Pre- calculus	Calculus
<b>Among 2013 graduates</b>									
Sex									
Male	‡	0.6	1.0	4.7	11.5	3.4	8.7	10.0	8.8
Female	‡	0.4 !	0.7	3.7	12.9	3.3	10.1	11.9	8.3
Race/ethnicity <sup>2</sup>									
White	‡	0.7	1.1	4.0	13.3	3.5	10.5	14.1	11.6
Black	‡	‡	‡	0.8	3.7	1.5	3.2	2.7	1.0
Hispanic	‡	‡	0.4 !	3.2	6.1	1.5	4.4	4.3	2.7
Asian/Pacific Islander	‡	‡	‡	‡	0.6	‡	0.6	1.1	2.0
American Indian/Alaska Native	‡	‡	‡	‡	0.3 !	‡	‡	‡	‡
Educational expectations in high school senior year <sup>4</sup>									
High school or less	‡	0.2 !	0.4	1.8	2.6	0.5	1.2	0.5	‡
Some college	‡	0.3	0.6	2.8	6.0	1.1	3.9	2.1	0.8
Bachelor's degree	‡	‡	‡	2.1	7.4	2.3	6.2	8.1	4.8
Graduate or professional degree	‡	‡	‡	1.3	6.9	2.9	7.5	12.0	12.3
School sector in high school senior year									
Public	‡	1.0	1.7	8.1	23.6	6.0	17.7	19.6	14.7
Private	‡	‡	‡	0.2 !	0.8	0.7	1.1	2.4	2.4

! Interpret data with caution. Estimate is unstable because the standard error is between 30 and 50 percent of the estimate.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate, or the standard error is 50 percent of the estimate or larger.

<sup>1</sup> Includes probability/statistics, non-calculus Advanced Placement (AP) or International Baccalaureate (IB) math courses, and other advanced math courses.

<sup>2</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.

<sup>3</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately.

<sup>4</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below. Detail may not sum to totals due to rounding. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-10. Standard errors for table C-10: Percentage distribution of high school graduates' highest level of mathematics course, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	No math	Below algebra 1	Algebra 1	Geometry	Algebra 2	Trigonometry	Other advanced math	Pre-calculus	Calculus
<b>Total</b>									
1982 graduates	†	0.72	0.63	0.64	0.69	0.47	0.66	0.43	0.43
1992 graduates	†	0.59	0.52	0.62	1.06	0.72	0.70	0.60	0.84
2004 graduates	†	0.25	0.29	0.52	0.74	0.66	0.86	0.76	0.54
2013 graduates	†	0.18	0.27	0.67	1.09	0.59	0.99	0.59	0.79
<b>Among 1982 graduates</b>									
<b>Sex</b>									
Male	†	0.46	0.39	0.37	0.44	0.31	0.41	0.26	0.28
Female	†	0.50	0.46	0.47	0.48	0.32	0.39	0.26	0.26
<b>Race/ethnicity</b>									
White	†	0.60	0.56	0.60	0.62	0.45	0.60	0.40	0.39
Black	†	0.34	0.24	0.17	0.27	0.07	0.15	0.06	0.08
Hispanic	†	0.25	0.20	0.15	0.14	0.07	0.08	0.06	0.07
Asian/Pacific Islander	†	†	†	0.04	0.05	0.04	0.05	0.04	0.05
American Indian/Alaska Native	†	0.14	0.07	†	†	†	†	†	†
<b>Parents' highest education</b>									
High school or less	†	0.53	0.45	0.41	0.42	0.23	0.28	0.18	0.17
Some college	†	0.41	0.40	0.44	0.48	0.29	0.41	0.28	0.29
Bachelor's degree or higher	†	0.17	0.19	0.26	0.28	0.22	0.31	0.23	0.23
<b>Educational expectations in high school senior year</b>									
High school or less	†	0.48	0.37	0.23	0.22	0.07	0.14	†	†
Some college	†	0.39	0.43	0.40	0.36	0.18	0.26	0.12	0.10
Bachelor's degree	†	0.24	0.22	0.34	0.37	0.27	0.32	0.25	0.22
Graduate or professional degree	†	0.14	0.19	0.26	0.31	0.27	0.30	0.26	0.29
<b>School sector in high school senior year</b>									
Public	†	0.71	0.64	0.62	0.68	0.41	0.62	0.38	0.39
Private	†	0.11	0.11	0.23	0.21	0.25	0.25	0.22	0.19

See notes at end of table.



**Table SC-10. Standard errors for table C-10: Percentage distribution of high school graduates' highest level of mathematics course, by selected student and school characteristics: 1982, 1992, 2004, and 2013—Continued**

Characteristic	No math	Below algebra 1	Algebra 1	Geometry	Algebra 2	Trigonometry	Other advanced math	Pre- calculus	Calculus
<b>Among 1992 graduates</b>									
Sex									
Male	†	0.49	0.39	0.48	0.85	0.54	0.43	0.38	0.71
Female	†	0.30	0.33	0.35	0.74	0.40	0.42	0.41	0.38
Race/ethnicity									
White	†	0.53	0.39	0.45	1.02	0.64	0.62	0.53	0.83
Black	†	0.17	0.33	0.39	0.26	0.19	0.19	0.20	0.22
Hispanic	†	0.16	0.18	0.25	0.38	0.21	0.16	0.11	0.08
Asian/Pacific Islander	†	0.08	0.08	0.05	0.17	0.05	0.05	0.13	0.10
American Indian/Alaska Native	†	†	†	†	0.06	†	†	†	†
Parents' highest education									
High school or less	†	0.32	0.31	0.29	0.76	0.29	0.33	0.26	0.15
Some college	†	0.31	0.37	0.48	0.77	0.35	0.37	0.42	0.40
Bachelor's degree or higher	†	0.47	0.14	0.24	0.47	0.59	0.31	0.38	0.87
Educational expectations in high school senior year									
High school or less	†	0.14	0.20	0.08	0.29	†	†	†	†
Some college	†	0.55	0.29	0.38	0.57	0.25	0.26	0.08	†
Bachelor's degree	†	0.16	0.24	0.26	0.90	0.60	0.40	0.46	0.40
Graduate or professional degree	†	0.16	0.15	0.36	0.57	0.32	0.34	0.35	0.85
School sector in high school senior year									
Public	†	0.59	0.52	0.61	1.07	0.58	0.66	0.57	0.45
Private	†	†	†	0.14	0.26	0.45	0.21	0.24	0.79

See notes at end of table.

**Table SC-10. Standard errors for table C-10: Percentage distribution of high school graduates' highest level of mathematics course, by selected student and school characteristics: 1982, 1992, 2004, and 2013—Continued**

Characteristic	No math	Below algebra 1	Algebra 1	Geometry	Algebra 2	Trigonometry	Other advanced math	Pre- calculus	Calculus
<b>Among 2004 graduates</b>									
Sex									
Male	†	0.18	0.20	0.32	0.43	0.33	0.47	0.45	0.41
Female	†	0.15	0.18	0.34	0.50	0.40	0.54	0.52	0.33
Race/ethnicity									
White	†	0.22	0.22	0.39	0.62	0.45	0.67	0.64	0.49
Black	†	0.11	0.09	0.20	0.33	0.24	0.29	0.25	0.09
Hispanic	†	0.08	0.15	0.25	0.38	0.20	0.28	0.28	0.15
Asian/Pacific Islander	†	†	†	0.04	0.09	0.04	0.09	0.12	0.17
American Indian/Alaska Native	†	†	†	†	†	†	†	†	†
Parents' highest education									
High school or less	†	0.16	0.17	0.26	0.38	0.17	0.34	0.26	0.18
Some college	†	0.12	0.15	0.30	0.41	0.29	0.45	0.36	0.22
Bachelor's degree or higher	†	0.11	0.13	0.20	0.34	0.36	0.40	0.53	0.46
Educational expectations in high school senior year									
High school or less	†	0.10	0.11	0.13	0.14	†	0.11	†	†
Some college	†	0.17	0.17	0.29	0.36	0.15	0.32	0.18	†
Bachelor's degree	†	†	0.11	0.27	0.43	0.36	0.46	0.43	0.30
Graduate or professional degree	†	†	0.08	0.18	0.35	0.32	0.39	0.50	0.46
School sector in high school senior year									
Public	†	0.25	0.29	0.52	0.75	0.65	0.86	0.73	0.52
Private	†	†	†	0.05	0.14	0.13	0.15	0.19	0.22

See notes at end of table.

**Table SC-10. Standard errors for table C-10: Percentage distribution of high school graduates' highest level of mathematics course, by selected student and school characteristics: 1982, 1992, 2004, and 2013—Continued**

Characteristic	No math	Below algebra 1	Algebra 1	Geometry	Algebra 2	Trigonometry	Other advanced math	Pre- calculus	Calculus
<b>Among 2013 graduates</b>									
Sex									
Male	†	0.13	0.20	0.44	0.62	0.33	0.61	0.46	0.42
Female	†	0.13	0.13	0.39	0.73	0.35	0.60	0.48	0.55
Race/ethnicity									
White	†	0.13	0.20	0.40	0.72	0.35	0.63	0.51	0.55
Black	†	†	†	0.17	0.46	0.36	0.40	0.30	0.21
Hispanic	†	†	0.14	0.43	0.59	0.28	0.53	0.38	0.37
Asian/Pacific Islander	†	†	†	†	0.09	†	0.10	0.13	0.33
American Indian/Alaska Native	†	†	†	†	0.11	†	†	†	†
Educational expectations in high school senior year									
High school or less	†	0.08	0.10	0.26	0.30	0.11	0.20	0.13	†
Some college	†	0.07	0.15	0.30	0.38	0.21	0.34	0.21	0.13
Bachelor's degree	†	†	†	0.26	0.46	0.29	0.46	0.36	0.36
Graduate or professional degree	†	†	†	0.18	0.48	0.28	0.49	0.51	0.61
School sector in high school senior year									
Public	†	0.18	0.27	0.68	1.08	0.56	0.96	0.59	0.79
Private	†	†	†	0.06	0.11	0.17	0.16	0.18	0.23

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-11. Percentage distribution of high school graduates' highest level of science course, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	No science	General science	Specialty science <sup>1</sup>	Advanced studies <sup>2</sup>	AP/IB science <sup>3</sup>
<b>Total</b>					
1982 graduates	4.7	67.2	15.9	12.2	—
1992 graduates	0.4	60.0	19.7	19.9	—
2004 graduates	0.4	46.7	30.3	11.6	11.0
2013 graduates	‡	41.1	37.7	5.4	15.7
<b>Among 1982 graduates</b>					
Sex					
Male	2.1	30.8	7.6	5.8	—
Female	2.7	36.3	8.3	6.3	—
Race/ethnicity <sup>4</sup>					
White	3.4	50.8	12.3	10.1	—
Black	0.5	6.9	1.5	1.0	—
Hispanic	0.7	7.8	1.6	0.7	—
Asian/Pacific Islander	‡	0.8	0.3	0.4	—
American Indian/Alaska Native	‡	‡	‡	‡	—
Parents' highest education <sup>5</sup>					
High school or less	2.7	27.1	5.7	3.7	—
Some college	1.4	28.4	7.8	6.0	—
Bachelor's degree or higher	‡	10.5	3.1	3.3	—
Educational expectations in high school senior year <sup>6</sup>					
High school or less	2.0	14.4	2.7	0.7	—
Some college	1.9	24.1	5.3	2.2	—
Bachelor's degree	0.6	16.7	4.1	4.7	—
Graduate or professional degree	‡	11.5	3.8	5.0	—
School sector in high school senior year					
Public	4.8	60.3	13.9	10.7	—
Private	0.1 !	6.8	2.0	1.4	—
<b>Among 1992 graduates</b>					
Sex					
Male	0.3	30.6	9.1	9.7	—
Female	‡	29.4	10.6	10.2	—
Race/ethnicity <sup>4</sup>					
White	‡	44.1	15.8	16.0	—
Black	‡	7.4	1.6	1.6	—
Hispanic	‡	5.8	1.5	1.2	—
Asian/Pacific Islander	‡	2.3	0.6	1.0	—
American Indian/Alaska Native	‡	0.5	0.2 !	‡	—
Parents' highest education					
High school or less	‡	18.1	4.3	3.6	—
Some college	‡	25.4	8.6	7.3	—
Bachelor's degree or higher	‡	16.1	6.7	9.5	—

See notes at end of table.

**Table C-11. Percentage distribution of high school graduates' highest level of science course, by selected student and school characteristics: 1982, 1992, 2004, and 2013—Continued**

Characteristic	No science	General science	Specialty science <sup>1</sup>	Advanced studies <sup>2</sup>	AP/IB science <sup>3</sup>
Educational expectations in high school senior year <sup>6</sup>					
High school or less	‡	3.6	0.6	0.3	—
Some college	‡	17.5	4.9	2.4	—
Bachelor's degree	‡	21.7	8.5	6.7	—
Graduate or professional degree	‡	16.8	5.7	11.0	—
School sector in high school senior year					
Public	0.4	54.7	17.8	17.3	—
Private	‡	5.3	1.9	2.6	—
<b>Among 2004 graduates</b>					
Sex					
Male	‡	24.0	13.5	5.4	5.4
Female	‡	22.7	16.7	6.2	5.6
Race/ethnicity <sup>4</sup>					
White	‡	29.3	21.2	8.5	7.9
Black	‡	6.4	4.1	1.3	0.7
Hispanic	‡	8.8	3.6	1.1	0.9
Asian/Pacific Islander	‡	1.8	0.9	0.5	1.5
American Indian/Alaska Native	‡	0.4 !	0.3 !	‡	‡
Parents' highest education					
High school or less	‡	12.4	7.5	2.8	1.4
Some college	‡	16.7	10.6	4.1	2.3
Bachelor's degree or higher	‡	17.6	12.2	4.6	7.3
Educational expectations in high school senior year <sup>6</sup>					
High school or less	‡	2.1	1.6	‡	‡
Some college	‡	9.9	6.5	1.8	0.3
Bachelor's degree	‡	18.5	11.7	4.7	3.0
Graduate or professional degree	‡	15.5	10.4	4.9	8.3
School sector in high school senior year					
Public	0.4	43.0	27.9	10.6	9.7
Private	‡	3.7	2.3	1.0	1.4
<b>Among 2013 graduates</b>					
Sex					
Male	‡	21.7	17.3	2.4	7.3
Female	‡	19.4	20.3	3.0	8.4
Race/ethnicity <sup>4</sup>					
White	‡	23.5	21.6	3.8	9.9
Black	‡	5.9	5.5	0.5	1.4
Hispanic	‡	10.2	8.9	1.0	2.6
Asian/Pacific Islander	‡	1.2	1.3	‡	1.9
American Indian/Alaska Native	‡	0.2 !	0.3 !	‡	‡

See notes at end of table.

**Table C-11. Percentage distribution of high school graduates' highest level of science course, by selected student and school characteristics: 1982, 1992, 2004, and 2013—Continued**

Characteristic	No science	General science	Specialty science <sup>1</sup>	Advanced studies <sup>2</sup>	AP/IB science <sup>3</sup>
Educational expectations in high school senior year <sup>6</sup>					
High school or less	‡	4.1	2.9	0.2 !	‡
Some college	‡	8.5	7.7	0.7	0.8
Bachelor's degree	‡	13.0	12.3	2.1	4.2
Graduate or professional degree	‡	14.3	14.8	2.5	11.9
School sector in high school senior year					
Public	‡	38.3	34.7	5.1	14.2
Private	‡	2.8	3.0	0.4	1.5

— Not available.

‡ Not applicable.

! Interpret data with caution. Estimate is unstable because the standard error is between 30 and 50 percent of the estimate.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate, or the standard error is 50 percent of the estimate or larger.

<sup>1</sup> Includes courses such as geology, botany, zoology, and independent studies in biology, chemistry, or physics.<sup>2</sup> Includes advanced studies in biology, chemistry, physics, and other specialty science (e.g., zoology).<sup>3</sup> Includes Advanced Placement (AP) or International Baccalaureate (IB) courses. AP/IB courses were not separated from the "advanced studies" category for 1982 and 1992 high school graduates.<sup>4</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>5</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately.<sup>6</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-11. Standard errors for table C-11: Percentage distribution of high school graduates' highest level of science course, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	No science	General science	Specialty science	Advanced studies	AP/IB science
<b>Total</b>					
1982 graduates	0.43	1.05	0.87	0.73	†
1992 graduates	0.11	1.28	1.01	1.09	†
2004 graduates	0.11	1.23	1.05	0.95	0.53
2013 graduates	†	1.09	1.04	0.61	0.83
<b>Among 1982 graduates</b>					
Sex					
Male	0.24	0.74	0.49	0.43	†
Female	0.29	0.81	0.53	0.46	†
Race/ethnicity					
White	0.35	1.06	0.76	0.67	†
Black	0.12	0.55	0.24	0.19	†
Hispanic	0.12	0.37	0.16	0.10	†
Asian/Pacific Islander	†	0.12	0.08	0.06	†
American Indian/Alaska Native	†	†	†	†	†
Parents' highest education					
High school or less	0.33	0.85	0.46	0.35	†
Some college	0.20	0.77	0.53	0.44	†
Bachelor's degree or higher	†	0.52	0.30	0.36	†
Educational expectations in high school senior year					
High school or less	0.25	0.62	0.30	0.15	†
Some college	0.25	0.68	0.42	0.24	†
Bachelor's degree	0.11	0.59	0.36	0.38	†
Graduate or professional degree	†	0.49	0.31	0.38	†
School sector in high school senior year					
Public	0.44	1.04	0.84	0.68	†
Private	0.04	0.50	0.31	0.31	†
<b>Among 1992 graduates</b>					
Sex					
Male	0.08	1.04	0.65	0.75	†
Female	†	0.89	0.72	0.64	†
Race/ethnicity					
White	†	1.27	0.95	1.07	†
Black	†	0.74	0.21	0.24	†
Hispanic	†	0.59	0.19	0.22	†
Asian/Pacific Islander	†	0.28	0.10	0.11	†
American Indian/Alaska Native	†	0.08	0.09	†	†
Parents' highest education					
High school or less	†	0.92	0.33	0.35	†
Some college	†	0.95	0.77	0.55	†
Bachelor's degree or higher	†	0.77	0.61	0.89	†

See notes at end of table.

**Table SC-11. Standard errors for table C-11: Percentage distribution of high school graduates' highest level of science course, by selected student and school characteristics: 1982, 1992, 2004, and 2013—Continued**

Characteristic	No science	General science	Specialty science	Advanced studies	AP/IB science
Educational expectations in high school senior year					
High school or less	†	0.37	0.08	0.08	†
Some college	†	0.85	0.44	0.31	†
Bachelor's degree	†	0.91	0.85	0.49	†
Graduate or professional degree	†	0.77	0.35	0.86	†
School sector in high school senior year					
Public	0.11	1.31	0.96	0.94	†
Private	†	0.51	0.45	0.74	†
<b>Among 2004 graduates</b>					
Sex					
Male	†	0.73	0.59	0.53	0.35
Female	†	0.76	0.67	0.51	0.33
Race/ethnicity					
White	†	1.04	0.92	0.76	0.46
Black	†	0.44	0.35	0.22	0.11
Hispanic	†	0.66	0.33	0.30	0.12
Asian/Pacific Islander	†	0.16	0.10	0.09	0.15
American Indian/Alaska Native	†	0.12	0.12	†	†
Parents' highest education					
High school or less	†	0.54	0.47	0.35	0.15
Some college	†	0.61	0.52	0.39	0.19
Bachelor's degree or higher	†	0.68	0.53	0.42	0.45
Educational expectations in high school senior year					
High school or less	†	0.19	0.18	†	†
Some college	†	0.48	0.40	0.27	0.07
Bachelor's degree	†	0.64	0.53	0.45	0.23
Graduate or professional degree	†	0.63	0.44	0.42	0.45
School sector in high school senior year					
Public	0.11	1.23	1.03	0.95	0.51
Private	†	0.26	0.22	0.21	0.16
<b>Among 2013 graduates</b>					
Sex					
Male	†	0.66	0.69	0.30	0.50
Female	†	0.75	0.68	0.38	0.49
Race/ethnicity					
White	†	0.85	0.86	0.43	0.63
Black	†	0.57	0.53	0.12	0.27
Hispanic	†	0.74	0.69	0.28	0.37
Asian/Pacific Islander	†	0.21	0.18	†	0.25
American Indian/Alaska Native	†	0.09	0.12	†	†

See notes at end of table.



**Table SC-11. Standard errors for table C-11: Percentage distribution of high school graduates' highest level of science course, by selected student and school characteristics: 1982, 1992, 2004, and 2013—Continued**

Characteristic	No science	General science	Specialty science	Advanced studies	AP/IB science
Educational expectations in high school senior year					
High school or less	†	0.31	0.33	0.09	†
Some college	†	0.50	0.43	0.14	0.12
Bachelor's degree	†	0.58	0.60	0.29	0.41
Graduate or professional degree	†	0.59	0.72	0.30	0.58
School sector in high school senior year					
Public	†	1.07	1.00	0.60	0.83
Private	†	0.32	0.28	0.08	0.17

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-12. Average cumulative grade point average earned by high school graduates, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>2.64</b>	<b>2.65</b>	<b>2.87</b>	<b>2.86</b>
Sex				
Male	2.53	2.53	2.75	2.75
Female	2.74	2.76	2.98	2.96
Race/ethnicity <sup>1</sup>				
White	2.72	2.71	2.99	3.01
Black	2.32	2.26	2.45	2.54
Hispanic	2.39	2.48	2.64	2.63
Asian/Pacific Islander	2.96	2.90	3.09	3.14
American Indian/Alaska Native	2.42	2.31	2.56	2.62
Parents' highest education <sup>2</sup>				
High school or less	2.56	2.45	2.68	†
Some college	2.71	2.62	2.78	†
Bachelor's degree or higher	2.84	2.92	3.04	†
Educational expectations in high school senior year <sup>3</sup>				
High school or less	2.29	2.21	2.33	2.26
Some college	2.55	2.33	2.49	2.54
Bachelor's degree	2.84	2.73	2.88	2.93
Graduate or professional degree	2.99	2.93	3.17	3.11
School sector in high school senior year				
Public	2.64	2.63	2.84	2.83
Private	2.69	2.78	3.09	3.20

† Not applicable.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-12. Standard errors for table C-12: Average cumulative grade point average earned by high school graduates, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>0.012</b>	<b>0.012</b>	<b>0.012</b>	<b>0.012</b>
Sex				
Male	0.015	0.017	0.014	0.017
Female	0.014	0.015	0.015	0.016
Race/ethnicity				
White	0.012	0.013	0.012	0.012
Black	0.032	0.040	0.026	0.035
Hispanic	0.024	0.033	0.028	0.027
Asian/Pacific Islander	0.052	0.041	0.029	0.034
American Indian/Alaska Native	0.075	0.055	0.097	0.160
Parents' highest education				
High school or less	0.017	0.023	0.018	†
Some college	0.015	0.019	0.015	†
Bachelor's degree or higher	0.023	0.022	0.015	†
Educational expectations in high school senior year				
High school or less	0.021	0.035	0.031	0.034
Some college	0.016	0.022	0.021	0.024
Bachelor's degree	0.018	0.020	0.015	0.017
Graduate or professional degree	0.020	0.023	0.014	0.014
School sector in high school senior year				
Public	0.013	0.013	0.013	0.013
Private	0.033	0.046	0.022	0.029

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSLs:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-13. Average cumulative English grade point average earned by high school graduates, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>2.50</b>	<b>2.49</b>	<b>2.71</b>	<b>2.72</b>
Sex				
Male	2.31	2.30	2.53	2.56
Female	2.67	2.67	2.89	2.88
Race/ethnicity <sup>1</sup>				
White	2.59	2.55	2.83	2.87
Black	2.17	2.09	2.31	2.41
Hispanic	2.19	2.27	2.49	2.50
Asian/Pacific Islander	2.82	2.80	2.98	3.07
American Indian/Alaska Native	2.23	2.11	2.33	2.48
Parents' highest education <sup>2</sup>				
High school or less	2.41	2.25	2.48	†
Some college	2.57	2.44	2.62	†
Bachelor's degree or higher	2.75	2.81	2.92	†
Educational expectations in high school senior year <sup>3</sup>				
High school or less	2.07	1.96	2.08	2.07
Some college	2.37	2.08	2.26	2.36
Bachelor's degree	2.76	2.59	2.74	2.79
Graduate or professional degree	2.92	2.84	3.07	3.00
School sector in high school senior year				
Public	2.48	2.46	2.69	2.70
Private	2.64	2.68	2.97	3.09

† Not applicable.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-13. Standard errors for table C-13: Average cumulative English grade point average earned by high school graduates, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>0.014</b>	<b>0.015</b>	<b>0.013</b>	<b>0.013</b>
Sex				
Male	0.018	0.021	0.017	0.019
Female	0.016	0.018	0.016	0.017
Race/ethnicity				
White	0.014	0.016	0.015	0.016
Black	0.037	0.044	0.031	0.039
Hispanic	0.029	0.036	0.033	0.025
Asian/Pacific Islander	0.059	0.047	0.034	0.035
American Indian/Alaska Native	0.112	0.083	0.112	0.163
Parents' highest education				
High school or less	0.021	0.029	0.021	†
Some college	0.019	0.023	0.019	†
Bachelor's degree or higher	0.028	0.023	0.018	†
Educational expectations in high school senior year				
High school or less	0.029	0.042	0.041	0.040
Some college	0.019	0.024	0.026	0.029
Bachelor's degree	0.021	0.023	0.017	0.021
Graduate or professional degree	0.025	0.025	0.017	0.017
School sector in high school senior year				
Public	0.015	0.015	0.015	0.015
Private	0.036	0.050	0.028	0.032

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-14. Average cumulative mathematics grade point average earned by high school graduates who took mathematics courses in high school, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>2.28</b>	<b>2.27</b>	<b>2.47</b>	<b>2.45</b>
Sex				
Male	2.19	2.18	2.37	2.36
Female	2.36	2.35	2.57	2.54
Race/ethnicity <sup>1</sup>				
White	2.36	2.33	2.61	2.63
Black	1.96	1.88	2.01	2.13
Hispanic	2.05	2.05	2.19	2.18
Asian/Pacific Islander	2.67	2.53	2.78	2.81
American Indian/Alaska Native	2.07	1.88	2.07	2.35
Parents' highest education <sup>2</sup>				
High school or less	2.23	2.08	2.28	†
Some college	2.32	2.21	2.36	†
Bachelor's degree or higher	2.45	2.57	2.68	†
Educational expectations in high school senior year <sup>3</sup>				
High school or less	2.05	2.00	2.00	1.85
Some college	2.16	1.94	2.04	2.10
Bachelor's degree	2.43	2.32	2.46	2.49
Graduate or professional degree	2.63	2.55	2.82	2.75
School sector in high school senior year				
Public	2.27	2.24	2.44	2.42
Private	2.35	2.53	2.80	2.92

† Not applicable.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-14. Standard errors for table C-14: Average cumulative mathematics grade point average earned by high school graduates who took mathematics courses in high school, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>0.014</b>	<b>0.016</b>	<b>0.015</b>	<b>0.015</b>
Sex				
Male	0.018	0.023	0.019	0.020
Female	0.018	0.018	0.019	0.022
Race/ethnicity				
White	0.015	0.018	0.017	0.016
Black	0.040	0.041	0.031	0.037
Hispanic	0.031	0.035	0.042	0.033
Asian/Pacific Islander	0.084	0.059	0.039	0.046
American Indian/Alaska Native	0.087	0.067	0.124	0.181
Parents' highest education				
High school or less	0.022	0.025	0.024	†
Some college	0.020	0.021	0.018	†
Bachelor's degree or higher	0.033	0.025	0.020	†
Educational expectations in high school senior year				
High school or less	0.027	0.043	0.042	0.040
Some college	0.021	0.033	0.028	0.029
Bachelor's degree	0.026	0.023	0.020	0.023
Graduate or professional degree	0.027	0.030	0.019	0.018
School sector in high school senior year				
Public	0.015	0.016	0.016	0.017
Private	0.038	0.049	0.033	0.041

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-15. Average cumulative science grade point average earned by high school graduates who took science courses in high school, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>2.38</b>	<b>2.36</b>	<b>2.59</b>	<b>2.55</b>
Sex				
Male	2.30	2.27	2.48	2.46
Female	2.45	2.44	2.70	2.64
Race/ethnicity <sup>1</sup>				
White	2.47	2.41	2.73	2.72
Black	2.05	1.98	2.17	2.19
Hispanic	2.10	2.19	2.30	2.27
Asian/Pacific Islander	2.68	2.66	2.82	2.90
American Indian/Alaska Native	2.07	1.93	2.22	2.47
Parents' highest education <sup>2</sup>				
High school or less	2.29	2.13	2.37	†
Some college	2.45	2.31	2.48	†
Bachelor's degree or higher	2.62	2.68	2.81	†
Educational expectations in high school senior year <sup>3</sup>				
High school or less	1.95	1.86	2.05	1.87
Some college	2.29	2.01	2.15	2.16
Bachelor's degree	2.58	2.43	2.61	2.63
Graduate or professional degree	2.79	2.69	2.95	2.85
School sector in high school senior year				
Public	2.37	2.34	2.57	2.52
Private	2.43	2.54	2.85	2.97

† Not applicable.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.



**Table SC-15. Standard errors for table C-15: Average cumulative science grade point average earned by high school graduates who took science courses in high school, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>0.015</b>	<b>0.016</b>	<b>0.014</b>	<b>0.016</b>
Sex				
Male	0.019	0.024	0.018	0.021
Female	0.019	0.019	0.018	0.020
Race/ethnicity				
White	0.016	0.017	0.015	0.016
Black	0.045	0.060	0.032	0.038
Hispanic	0.037	0.059	0.032	0.035
Asian/Pacific Islander	0.071	0.050	0.038	0.068
American Indian/Alaska Native	0.107	0.086	0.160	0.158
Parents' highest education				
High school or less	0.023	0.030	0.022	†
Some college	0.020	0.025	0.020	†
Bachelor's degree or higher	0.031	0.025	0.018	†
Educational expectations in high school senior year				
High school or less	0.031	0.061	0.043	0.041
Some college	0.023	0.032	0.028	0.029
Bachelor's degree	0.025	0.027	0.020	0.022
Graduate or professional degree	0.027	0.027	0.018	0.019
School sector in high school senior year				
Public	0.016	0.017	0.015	0.018
Private	0.036	0.049	0.027	0.038

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-16. Average cumulative social studies/history grade point average earned by high school graduates who took social studies/history courses in high school, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>2.50</b>	<b>2.54</b>	<b>2.76</b>	<b>2.77</b>
Sex				
Male	2.40	2.43	2.64	2.66
Female	2.58	2.64	2.87	2.87
Race/ethnicity <sup>1</sup>				
White	2.59	2.61	2.88	2.92
Black	2.16	2.15	2.37	2.46
Hispanic	2.15	2.32	2.51	2.53
Asian/Pacific Islander	2.88	2.81	2.98	3.09
American Indian/Alaska Native	2.33	2.21	2.47	2.53
Parents' highest education <sup>2</sup>				
High school or less	2.37	2.31	2.53	†
Some college	2.59	2.48	2.66	†
Bachelor's degree or higher	2.78	2.89	2.97	†
Educational expectations in high school senior year <sup>3</sup>				
High school or less	2.00	1.95	2.08	2.10
Some college	2.33	2.10	2.30	2.39
Bachelor's degree	2.80	2.69	2.78	2.86
Graduate or professional degree	2.99	2.90	3.13	3.05
School sector in high school senior year				
Public	2.48	2.52	2.73	2.74
Private	2.64	2.74	3.01	3.13

† Not applicable.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-16. Standard errors for table C-16: Average cumulative social studies/history grade point average earned by high school graduates who took social studies/history courses in high school, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>0.015</b>	<b>0.017</b>	<b>0.014</b>	<b>0.014</b>
Sex				
Male	0.019	0.024	0.017	0.019
Female	0.018	0.019	0.019	0.019
Race/ethnicity				
White	0.016	0.019	0.017	0.015
Black	0.041	0.048	0.031	0.038
Hispanic	0.030	0.037	0.035	0.031
Asian/Pacific Islander	0.050	0.047	0.035	0.039
American Indian/Alaska Native	0.094	0.090	0.110	0.188
Parents' highest education				
High school or less	0.023	0.044	0.021	†
Some college	0.019	0.025	0.019	†
Bachelor's degree or higher	0.031	0.022	0.018	†
Educational expectations in high school senior year				
High school or less	0.027	0.036	0.046	0.040
Some college	0.021	0.025	0.029	0.035
Bachelor's degree	0.024	0.029	0.019	0.020
Graduate or professional degree	0.026	0.025	0.016	0.016
School sector in high school senior year				
Public	0.016	0.018	0.015	0.016
Private	0.038	0.046	0.026	0.039

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-17. Average cumulative foreign language grade point average earned by high school graduates who took foreign language courses in high school, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>2.54</b>	<b>2.50</b>	<b>2.71</b>	<b>2.70</b>
Sex				
Male	2.34	2.28	2.50	2.53
Female	2.67	2.70	2.88	2.86
Race/ethnicity <sup>1</sup>				
White	2.59	2.54	2.80	2.81
Black	2.17	2.09	2.21	2.37
Hispanic	2.40	2.46	2.63	2.62
Asian/Pacific Islander	2.92	2.84	3.02	3.12
American Indian/Alaska Native	2.07	2.11	2.41	2.25
Parents' highest education <sup>2</sup>				
High school or less	2.47	2.29	2.55	†
Some college	2.58	2.47	2.60	†
Bachelor's degree or higher	2.65	2.75	2.87	†
Educational expectations in high school senior year <sup>3</sup>				
High school or less	1.95	1.80	1.79	1.83
Some college	2.32	1.96	2.16	2.26
Bachelor's degree	2.67	2.55	2.68	2.74
Graduate or professional degree	2.88	2.84	3.06	3.02
School sector in high school senior year				
Public	2.53	2.48	2.68	2.67
Private	2.56	2.67	2.95	3.08

† Not applicable.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-17. Standard errors for table C-17: Average cumulative foreign language grade point average earned by high school graduates who took foreign language courses in high school, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>0.021</b>	<b>0.021</b>	<b>0.015</b>	<b>0.019</b>
Sex				
Male	0.031	0.033	0.022	0.024
Female	0.025	0.023	0.020	0.026
Race/ethnicity				
White	0.022	0.024	0.017	0.020
Black	0.072	0.057	0.043	0.056
Hispanic	0.048	0.072	0.037	0.043
Asian/Pacific Islander	0.108	0.057	0.042	0.044
American Indian/Alaska Native	0.132	0.121	0.232	0.260
Parents' highest education				
High school or less	0.039	0.051	0.033	†
Some college	0.029	0.034	0.022	†
Bachelor's degree or higher	0.040	0.030	0.020	†
Educational expectations in high school senior year				
High school or less	0.070	0.098	0.083	0.063
Some college	0.037	0.057	0.041	0.042
Bachelor's degree	0.032	0.028	0.022	0.028
Graduate or professional degree	0.033	0.032	0.019	0.024
School sector in high school senior year				
Public	0.023	0.022	0.017	0.021
Private	0.048	0.057	0.028	0.041

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-18. Average cumulative fine and performing arts grade point average earned by high school graduates who took fine and performing arts courses in high school, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>3.06</b>	<b>3.16</b>	<b>3.34</b>	<b>3.31</b>
Sex				
Male	2.84	2.97	3.18	3.14
Female	3.22	3.33	3.47	3.45
Race/ethnicity <sup>1</sup>				
White	3.14	3.22	3.44	3.44
Black	2.77	2.81	3.00	3.03
Hispanic	2.79	2.95	3.10	3.11
Asian/Pacific Islander	3.28	3.33	3.49	3.53
American Indian/Alaska Native	2.72	2.89	2.81	2.86
Parents' highest education <sup>2</sup>				
High school or less	2.94	2.93	3.15	†
Some college	3.13	3.15	3.27	†
Bachelor's degree or higher	3.28	3.40	3.49	†
Educational expectations in high school senior year <sup>3</sup>				
High school or less	2.77	2.59	2.75	2.68
Some college	2.96	2.92	3.00	2.98
Bachelor's degree	3.25	3.19	3.37	3.39
Graduate or professional degree	3.41	3.42	3.59	3.54
School sector in high school senior year				
Public	3.05	3.15	3.31	3.28
Private	3.11	3.27	3.59	3.69

† Not applicable.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table SC-18. Standard errors for table C-18: Average cumulative fine and performing arts grade point average earned by high school graduates who took fine and performing arts courses in high school, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>0.017</b>	<b>0.019</b>	<b>0.015</b>	<b>0.019</b>
Sex				
Male	0.027	0.027	0.020	0.024
Female	0.019	0.023	0.016	0.022
Race/ethnicity				
White	0.018	0.021	0.015	0.016
Black	0.058	0.063	0.043	0.059
Hispanic	0.042	0.050	0.041	0.052
Asian/Pacific Islander	0.066	0.051	0.035	0.043
American Indian/Alaska Native	0.131	0.133	0.148	0.335
Parents' highest education				
High school or less	0.030	0.045	0.027	†
Some college	0.023	0.028	0.021	†
Bachelor's degree or higher	0.034	0.026	0.016	†
Educational expectations in high school senior year				
High school or less	0.039	0.095	0.072	0.055
Some college	0.029	0.037	0.031	0.041
Bachelor's degree	0.028	0.034	0.018	0.026
Graduate or professional degree	0.028	0.027	0.015	0.019
School sector in high school senior year				
Public	0.019	0.020	0.016	0.020
Private	0.046	0.058	0.023	0.025

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.

**Table C-19. Average cumulative computer and information science grade point average earned by high school graduates who took computer and information science courses in high school, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>2.72</b>	<b>2.82</b>	<b>3.01</b>	<b>3.07</b>
Sex				
Male	2.63	2.71	2.87	2.92
Female	2.83	2.93	3.16	3.22
Race/ethnicity <sup>1</sup>				
White	2.79	2.93	3.17	3.19
Black	2.34	2.27	2.56	2.82
Hispanic	2.33	2.53	2.76	2.89
Asian/Pacific Islander	2.73	2.90	3.28	3.35
American Indian/Alaska Native	‡	2.67	2.59	2.95
Parents' highest education <sup>2</sup>				
High school or less	2.56	2.61	2.78	†
Some college	2.76	2.80	2.96	†
Bachelor's degree or higher	3.05	3.08	3.21	†
Educational expectations in high school senior year <sup>3</sup>				
High school or less	2.27	2.15	2.35	2.45
Some college	2.58	2.54	2.63	2.67
Bachelor's degree	2.84	2.93	3.09	3.18
Graduate or professional degree	3.03	3.05	3.30	3.36
School sector in high school senior year				
Public	2.70	2.81	2.98	3.03
Private	2.89	2.93	3.34	3.49

† Not applicable.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate, or the standard error is 50 percent of the estimate or larger.

<sup>1</sup> Black includes African American, Hispanic includes Latino, and Asian/Pacific Islander includes Native Hawaiian. Race categories exclude persons of Hispanic or Latino origin. Other racial and ethnic groups are included in the total row but are not shown separately.<sup>2</sup> Among 1982 graduates, those who did not know their parents' highest level of education are included in the total but not shown separately. Data on parents' education for 2013 graduates are omitted because the categories are not comparable to those for prior cohorts.<sup>3</sup> Students who did not report their educational expectations, did not know what their expectations were, or reported that they expected to attain more than one education level are included in the total but not shown separately.

NOTE: Estimates were generated using course data coded from high school transcripts into School Courses for the Exchange of Data (SCED), a voluntary system of classification for courses at the secondary level and below.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&amp;B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.



**Table SC-19. Standard errors for table C-19: Average cumulative computer and information science grade point average earned by high school graduates who took computer and information science courses in high school, by selected student and school characteristics: 1982, 1992, 2004, and 2013**

Characteristic	1982	1992	2004	2013
<b>Total</b>	<b>0.047</b>	<b>0.029</b>	<b>0.022</b>	<b>0.027</b>
Sex				
Male	0.062	0.041	0.029	0.038
Female	0.066	0.032	0.026	0.031
Race/ethnicity				
White	0.052	0.030	0.025	0.031
Black	0.130	0.067	0.056	0.078
Hispanic	0.119	0.104	0.047	0.066
Asian/Pacific Islander	0.162	0.122	0.046	0.107
American Indian/Alaska Native	†	0.144	0.222	0.304
Parents' highest education				
High school or less	0.082	0.056	0.035	†
Some college	0.067	0.039	0.030	†
Bachelor's degree or higher	0.079	0.045	0.028	†
Educational expectations in high school senior year				
High school or less	0.132	0.137	0.095	0.120
Some college	0.080	0.059	0.045	0.067
Bachelor's degree	0.077	0.048	0.029	0.037
Graduate or professional degree	0.086	0.043	0.027	0.027
School sector in high school senior year				
Public	0.052	0.030	0.024	0.030
Private	0.096	0.086	0.046	0.046

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond Longitudinal Study (HS&B) of 1980 Sophomores, First Follow-up and High School Transcript Study; National Education Longitudinal Study of 1988 (NELS:88), Second Follow-up and High School Transcript Study; Education Longitudinal Study of 2002 (ELS:2002); High School Longitudinal Study of 2009 (HSL:09), Base-year, 2013 Update, and High School Transcript Study.