

Draft: Non-Secondary Codes and Course Descriptions for inclusion in the School Codes for the Exchange of Data (SCED) Secondary Course Classification System

The National Center for Education Statistics (NCES) published the Secondary School Course Classification System: School Codes for the Exchange of Data (SCED) in 2007; it was designed for use in student record systems, transcripts, and reporting by school districts and state education agencies (and their nonpublic school equivalents). That publication (<http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2007341>) included course titles, descriptions, and codes for secondary school level courses.

NCES and the Forum on Education Statistics are in the process of extending the secondary course classification system with codes and descriptions for courses offered at lower grade levels. This version of the elementary and middle grade courses has been posted to make potential future users aware of the approach that is being used and to solicit comments while the work is in progress.

Scope and Limitations

Readers should keep several considerations in mind as they review or use these course codes.

The distinction among elementary, middle, and secondary courses does not necessarily imply any specific grade. The secondary courses in SCED carry codes that include available credit for the course. The middle school courses are generally modified versions of SCED courses, but do not include the available credit component. Elementary course descriptions are not modifications of the SCED. Further, elementary courses include the option of content area-specific (e.g., 4th grade mathematics) as well as self-contained (e.g., 1st grade self-contained) courses for schools that do not break out subject areas at the elementary level.

Like SCED, the elementary and middle grade course descriptions are written at a general level that will allow users to map their specific courses to a common code. It is not expected that the course titles and descriptions will replace those used by states or school districts.

Like SCED, the elementary and middle grade course descriptions are drawn from existing state and school district course catalogs or descriptions. The course descriptions reflect what is widely taught; they do not attempt to incorporate emerging curriculum standards or potential future courses.

The elementary and middle grade courses describe courses that a student might take. Although they may describe the courses a teacher teaches, their purpose is to make student transcripts and school course catalogs more comparable.

The courses describe content, not methodology. Thus, the descriptions do not include specific instructional approaches such as Montessori method programs.

Brief Review and Extension of the Elements of the Course Coding Structure

The secondary course framework consists of four basic elements. *Taken together*, they create a unique identification code for any secondary course. The four component elements are course description, course level, available credit, and sequence.

Element 1. Course Description consists of two parts, a Subject Area and a Course Identifier within that Subject Area. For example, the secondary course General Math is coded as 02002—Subject Area Mathematics (02) and Course Identifier (002).

Subject Area. For secondary level courses, there are 22 general content categories, each represented by a two-digit code. The categories are mutually exclusive and, to date, can include any course offered in secondary schools. Currently, we are suggesting 23 Subject Area codes be used for the non-secondary courses (with Military Science as an empty subject area). The actual values or option set for the secondary subject area element (01 through 22) will be increased by 50 to represent courses at the non-secondary level (51 through 72). One additional subject area option (73) has been added for self-contained non-subject-specific courses at the non-secondary level. Subject Area identifies a single course, generally described, when it is combined with the Course Identifier.

Course Identifier. Courses within a Subject Area are distinguished by a three-digit code. The codes carry no meaning within themselves. As with all entries in the NCES Handbook series, “999” is reserved for courses coded as “other.” Only some numbers between 001 and 999 have been used in this system; unused numbers can accommodate new courses as these are added to the course classification system. The Course Descriptions are fairly general. They provide enough specificity to identify the course’s topic and to distinguish it from other courses in that Subject Area. However, the Course Descriptions do not include course objectives.

Three other elements in the SCED structure provide additional information about a course when combined with the Course Description.

Element 2. Course Level conveys the course’s level of rigor. There are four options for coding this element:

- *B* for basic or remedial. A course focusing primarily on skills development, including literacy in language, mathematics, and the physical and social sciences. These courses are typically less rigorous than standard courses and may be intended to prepare a student for a general course.
- *G* for general or regular. A course providing instruction in a given subject area that focuses primarily on general concepts appropriate for the grade level. General courses typically meet the state’s or district’s expectations of scope and difficulty for mastery of the content
- *E* for enriched or advanced. A course that augments the content and/or rigor of a general course, but does not carry an honors designation.
- *H* for honors. An advanced level course designed for students who have earned honors status according to educational requirements. These courses typically include additional content not found in general courses, and are formally designated as honors courses.
- *X* for no specified level of rigor. *The notion of “rigor” may not be appropriate for some courses at the elementary and middle levels, for example, surveyor interest courses that expose students to a variety of subjects.*

The majority of courses that schools offer are general: intended for any student in the proper grade level range. However, some courses are distinguished by having more or less rigorous requirements than the “usual” course and are designated as advanced/enriched, honors, or basic/remedial. Some school systems place students in, or allow students to select from, different “tracks”—particularly in academic subject areas—while others do not use such distinctions, holding all students to the same standards. The coding structure enables schools to portray such differences. Personal judgment is needed in assigning and interpreting the Course Level element. While individual schools, districts, and states may have criteria that clearly distinguish one level of course from another, these criteria are not the same in every state or school district. And, not every course catalog will include courses at all of these four levels.

Element 3. Available Credit or Grade Span identifies the amount of Carnegie unit credit available to a student who successfully meets the objectives of the course for courses that carry credit or the intended grade span for a non-secondary course.

Available Credit is used with *secondary courses* and is coded as a one-digit number carried out to two decimal places, with an explicit decimal. That is, one Carnegie unit would be coded as 1.00. A half-unit of Carnegie credit would be reported as 0.50. Note that Available Credit for a given course can vary from school district to school district.

At the *non-secondary level*, particularly in elementary and middle schools, Carnegie units hold no particular meaning. For elementary and middle courses this element indicates the grade spans for which the course is appropriate. The span is represented as a four-character code with no decimals. For example, a course appropriate for kindergarten and 1st grade would be assigned a grade span of KG01.

Element 4. Sequence describes the manner in which school systems may “break up” increasingly difficult or more complex information. School districts operating on a semester or trimester schedule frequently offer consecutive courses fitting one course description. For example, Accounting may be broken into two different courses that together make up a complete Accounting course. Or, a school may offer Accounting 1 and Accounting 2. Having this sequence code allows for successively complex courses that cover the same *general* content to be coded, without having a system with thousands of codes that in the end, may not translate across school, district, or state lines. (That is, Art 2 may be School A’s second semester Art class, while in School B, Art 2 may be the second year of Art.)

Sequence is a two-character element that should be interpreted as “part ‘n’ of ‘m’ parts.” In the School B example given above, with each course a year in length, Creative Arts—Comprehensive would be course “one of two,” or “1 2.” It is important to remember that sequence describes the order in which the courses are taken. If the arts sequence required or offered six semester-long courses, the second semester of Creative Arts—Comprehensive could be shown with the sequence “2 6,” or, “part 2 of 6 parts.” The Sequence indicated for a given course can vary from school district to school district.

Exhibit 1 is an example of how the four elements are used to identify a specific course.

Exhibit 1

The following shows the 12-character alphanumeric code for a Biology course (course description), taught within a non-secondary school (embedded within the subject area portion of the course description code) at a regular or general level (course level), that is offered to students in grades 7 and 8, and that is the sole Biology course, or is not part of a sequence of biology courses (sequence).

course description		course level	grade span	sequence
53	051	G	0708	1 1

As a last example, the following shows the 12-character alphanumeric code for a 3rd-grade Science course (course description), taught within a non-secondary school (embedded within the course description code) without a specific level of rigor, that is designed for 3rd-graders, and that is not part of a sequence of science courses (sequence).

course description		course level	grade span	sequence
53	033	X	0303	1 1

The following sections include the codes and descriptions proposed for the elementary and middle courses. When a course has been modified from the Secondary Course system, that code is also shown.

Course Names/Titles	Non-secondary codes	Secondary codes
English Language and Literature		
English as a Second Language	51008	01008
<p>English as a Second Language (ESL) courses are designed for the rapid mastery of the English language, focusing on reading, writing, speaking, and listening skills. ESL courses usually begin with extensive listening and speaking practice, building on auditory and oral skills, and then move on to reading and writing. These courses provide an explanation of basic structures of the English language, enabling students to progress from an elementary understanding of English words and verb tenses to a more comprehensive grasp of various formal and informal styles and then to advance to “regular” English courses. ESL classes may also include an orientation to the customs and culture of the diverse population in the United States.</p>		
Language Arts Laboratory	51009	01009
<p>Language Arts Laboratory courses provide instruction in basic language skills, integrating reading, writing, speaking, and listening, while placing great emphasis on the progress of individual students. Course content depends upon students’ abilities and may include vocabulary building, improving spelling and grammar, developing writing and composition skills, reading silently or aloud, and improving listening and comprehension abilities.</p>		
Language Arts (early childhood education)	51028	
<p>Language Arts (early childhood education) develops students’ readiness for language arts learning in reading, writing, listening, and speaking. Courses may include activities related to phonics, phonemic awareness, and vocabulary.</p>		
Language Arts (pre-kindergarten)	51029	
<p>Language Arts (pre-kindergarten) develops students’ readiness for language arts learning in reading, writing, listening, and speaking. Courses may include activities related to phonics, phonemic awareness, and vocabulary.</p>		
Language Arts (kindergarten)	51030	
<p>Language Arts (kindergarten) courses engage students in activities to develop their language arts skills (reading, writing, listening, and speaking). Course content may emphasize story telling or reading aloud and evoking a written, oral, or pictorial response. Specific content depends upon state standards for kindergarten.</p>		
Language Arts (grade 1)	51031	
<p>Language Arts (grade 1) courses include the four aspects of language use: reading, writing, speaking, and listening. These courses may emphasize recognition of and response to various types of text; extension of vocabulary and writing skills; and the connection of language to the expression of ideas. Specific content depends upon state standards for grade 1.</p>		
Language Arts (grade 2)	51032	
<p>Language Arts (grade 2) courses include the four aspects of language use: reading, writing, speaking, and listening. These courses may build students’ skills in independent reading and writing by increasing reading and writing fluency, vocabulary, and recognition of word and</p>		

Course Names/Titles	Non-secondary codes	Secondary codes
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language patterns. They may also introduce or reinforce the rules of grammar. Specific content depends upon state standards for grade 2.

Language Arts (grade 3)	51033	
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Language Arts (grade 3) courses include the four aspects of language use: reading, writing, speaking, and listening. These courses may emphasize independent reading and writing in a variety of assignments. Some emphasis may also be placed on presentation or oral communication skills. Specific content depends upon state standards for grade 3.

Language Arts (grade 4)	51034	
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Language Arts (grade 4) courses include the four aspects of language use: reading, writing, speaking, and listening. These courses may emphasize independent reading and writing in a variety of assignments and require students to respond to different material in different ways. Grammar and usage of the English language may also be emphasized. Specific content depends upon state standards for grade 4.

Language Arts (grade 5)	51035	
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Language Arts (grade 5) courses include the four aspects of language use: reading, writing, speaking, and listening. These courses may extend students' skills in composition, writing for particular purposes or audiences, distinguishing meaning and literary functions in texts, and fluency in reading. Specific content depends upon state standards for grade 5.

Language Arts (grade 6)	51036	
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Language Arts I (grade 6) courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and include the four aspects of language use: reading, writing, speaking, and listening. These courses may emphasize the use of language for different effects, in different contexts, and for different purposes. Specific content depends upon state standards for grade 6.

Language Arts (grade 7)	51037	
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Language Arts I (grade 7) courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and include the four aspects of language use: reading, writing, speaking, and listening. Beyond emphasizing different uses for language, these courses may also include using language (particularly written text) to construct meaning and connections. Specific content depends upon state standards for grade 7.

Language Arts (grade 8)	51038	
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Language Arts I (grade 8) courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and include the four aspects of language use: reading, writing, speaking, and listening. Typically, these courses use various genres of literature to improve reading skills, and link writing exercises for different purposes to those reading selections. Specific content depends upon state standards for grade 8.

Language Arts	51039	
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Generic "Language Arts" K-8 description not yet developed; may be kept as a simple placeholder, with an explanation but no specific description.

Course Names/Titles	Non-secondary codes	Secondary codes
Reading (kindergarten)	51040	
Reading (grade 1)	51041	
Reading (grade 2)	51042	
Reading (grade 3)	51043	
Reading (grade 4)	51044	
Reading (grade 5)	51045	
Reading (grade 6)	51046	
Reading (grade 7)	51047	
Reading (grade 8)	51048	
Reading	51049	
<i>Generic "Reading" K-8 description not yet developed.</i>		
Literature	51053	01053
<p>Literature courses offer the opportunity for students to study and reflect upon the themes presented in the body of literature being presented. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the reading selection and as they understand how the work reflects society's problems and culture. Oral discussion is an integral part of literature courses, and written compositions are often required. Literature courses may survey representative works, reflect a particular genre or a specific theme, or survey works of a particular time or people.</p>		
Strategic Reading	51066	01066
<p>Strategic Reading courses are intended to improve a student's vocabulary, critical-thinking and analysis skills, or reading rate and comprehension level. Although these courses typically emphasize works of fiction, they may also include works of nonfiction (including textbooks). Strategic Reading courses often have a time-management focus, offering strategies for note-taking or for understanding and evaluating the important points of a text.</p>		
Assisted Reading	51067	01067
<p>Assisted Reading courses offer students the opportunity to focus on their reading skills. Assistance is targeted to students' particular weaknesses and is designed to bring students' reading comprehension up to the desired level or to develop strategies to read more efficiently.</p>		
Corrective Reading	51068	01068
<p>Corrective Reading courses offer diagnostic and remedial activities designed to correct reading difficulties and habits that interfere with students' progress in developing reading skills and understandings. Activities are chosen to increase or improve students' reading comprehension, reading technique, and general literacy skills.</p>		
Literature—Other	51099	01099

Course Names/Titles	Non-secondary codes	Secondary codes
Composition	51103	01103
<p>Composition courses focus on students' writing skills and develop their ability to compose different types of papers for a range of purposes and audiences. These courses enable students to explore and practice descriptive, narrative, persuasive, or expository styles as they write paragraphs, essays, letters, applications, formal documented papers, or technical reports. Although composition courses may present some opportunities for creative writing, their focus usually remains on nonfiction, scholarly, or formal writing.</p>		
Creative Writing	51104	01104
<p>Creative Writing courses offer students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, essays, and other forms of prose. The emphasis of the courses is on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft. Although most creative writing classes cover several expressive forms, others concentrate exclusively on one particular form (such as poetry or playwriting).</p>		
Composition—Other	51149	01149
Public Speaking	51151	01151
<p>Public Speaking courses enable students, through practice, to develop communication skills that can be used in a variety of speaking situations (such as small and large group discussions, delivery of lectures or speeches in front of audiences, and so on). Course topics may include (but are not limited to) research and organization, writing for verbal delivery, stylistic choices, visual and presentation skills, analysis and critique, and development of self-confidence.</p>		
Communications	51155	01155
<p>Communications courses focus on the application of written and oral communication skills through a variety of formal and informal experiences. The courses are performance-based and emphasize effective interpersonal and team-building skills. Communications courses may also involve the study of how interpersonal communications are affected by stereotypes, nonverbal cues, vocabulary, and stylistic choices.</p>		
Speech—Other	51199	01199
English—Test Preparation	51203	01203
<p>English—Test preparation courses provide students with activities in analytical thinking and with the skills and strategies associated with standardized test taking. Topics covered include vocabulary, reading comprehension, and writing strategies, as well as time management, scoring procedures, and dealing with test-related stress. Course materials may include national and state standardized test review materials, current assessment software programs, and previous standardized examinations.</p>		
English Proficiency Development	51992	01992
<p>English Proficiency Development courses are designed to assist students in acquiring the skills necessary to pass proficiency examinations.</p>		

Course Names/Titles	Non-secondary codes	Secondary codes
English Language and Literature—Other	51999	01999

writing/spelling/penmanship:

Akin to the earlier series of “Reading” course, the system may need a series of courses on these topics, defining the specific subject as more focused on writing than the more comprehensive “English/Language Arts” courses.

Mathematics

Informal Mathematics	52001	02001
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Informal Mathematics courses emphasize the teaching of mathematics as problem solving, communication, and reasoning, and highlight the connections among mathematical topics and between mathematics and other disciplines. These courses approach the teaching of general math, pre-algebra, and pre-geometry topics by applying numbers, and algebraic and geometric concepts and relationships to real world problems.

General Math	52002	02002
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General Math courses reinforce and expand students' foundational math skills, such as arithmetic operations using rational numbers; area, perimeter, and volume of geometric figures, congruence and similarity, angle relationships, the Pythagorean theorem, the rectangular coordinate system, sets and logic, ratio and proportion, estimation, formulas, solving and graphing simple equations and inequalities.

Particular Topics in Foundation Math	52003	02003
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These courses examine particular topics in Foundation math, such as arithmetic or basic conceptual skills, rather than provide a general overview.

Mathematics (early childhood education)	52028	
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Description not yet developed; may not be possible.

Mathematics (pre-kindergarten)	52029	
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Description not yet developed; may not be possible.

Mathematics (kindergarten)	52030	
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Mathematics (kindergarten) courses typically introduce and reinforce basic concepts of mathematics such as counting whole numbers and understanding patterns, time, and money. Specific content depends upon state standards for kindergarten.

Mathematics (grade 1)	52031	
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Mathematics (grade 1) courses typically help build a conceptual foundation in number, operation, and quantitative reasoning; patterns, relationships, and algebraic thinking; geometry and spatial reasoning; and measurement. These courses often require students to develop their numerical fluency and to make calculation predictions. Specific content depends upon state standards for grade 1.

Course Names/Titles	Non-secondary codes	Secondary codes
Mathematics (grade 2)	52032	

Mathematics (grade 2) courses typically continue to build a conceptual foundation in number, operation, and quantitative reasoning; patterns, relationships, and algebraic thinking; geometry and spatial reasoning; and measurement. These courses often require students to develop their numerical fluency, particularly in addition and subtraction and to solve problems using those operations as well as estimation. Specific content depends upon state standards for grade 2.

Mathematics (grade 3)	52033	
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Mathematics (grade 3) courses typically emphasize number, operation, and quantitative reasoning; patterns, relationships, and algebraic thinking; geometry and spatial reasoning; and measurement. These courses often require students to improve their numerical fluency, adding multiplication and division to addition and subtraction operations, using whole numbers and parts (quarters, thirds, halves), and estimation. Specific content depends upon state standards for grade 3.

Mathematics (grade 4)	52034	
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Mathematics (grade 4) courses typically emphasize number, operation, and quantitative reasoning; patterns, relationships, and algebraic thinking; geometry and spatial reasoning; and measurement. Course content may include activities that increase operational fluency, make connections between abstract symbols and concrete events or concepts, or presentation of conclusions based on data. Specific content depends upon state standards for grade 4.

Mathematics (grade 5)	52035	
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Mathematics (grade 5) courses typically emphasize number, operation, and quantitative reasoning; patterns, relationships, and algebraic thinking; geometry and spatial reasoning; and measurement. Course content may include activities that increase operational fluency, make connections between abstract symbols and concrete events or concepts, or include presentation of mathematical reasoning. Specific content depends upon state standards for grade 5.

Mathematics (grade 6)	52036	
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Mathematics (grade 6) courses typically emphasize skills in numerical operations (including the basic operations and the order of operation), measurement, patterns, simple functions, geometry, and concepts of data analysis, including statistics and probability. Specific content depends upon state standards for grade 6.

Mathematics (grade 7)	52037	
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Mathematics (grade 7) courses typically emphasize proficiency in skills involving numbers and operations, measurement, patterns, functions, algebraic formulas, geometry, and concepts of data analysis, including statistics and probability. Specific content depends upon state standards for grade 7.

Mathematics (grade 8)	52038	
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Mathematics (grade 8) courses typically emphasize proficiency in students' skills in numbers and operations, measurement, patterns, simple functions, algebra, geometry, statistics, and probability. Specific content depends upon state standards for grade 8.

Course Names/Titles	Non-secondary codes	Secondary codes
Mathematics <i>Generic “Mathematics” K-8 description not yet developed; may be kept as a simple placeholder, with an explanation but no specific description.</i>	52039	
Foundation Math—Other	52049	02049
Pre-Algebra Pre-Algebra courses increase students' foundational math skills and prepare them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities.	52051	02051
Algebra I Algebra I courses include the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations.	52052	02052
Integrated Math—multi-year equivalent Integrated Math courses emphasize the teaching of mathematics as problem solving, communication, and reasoning, and emphasize the connections among mathematical topics and between mathematics and other disciplines. The multi-period sequence of Integrated Math replaces the traditional Algebra I, Geometry, Algebra II sequence of courses, and usually covers the following topics during a three- or four-year sequence: algebra, functions, geometry from both a synthetic and an algebraic perspective, trigonometry, statistics and probability, discrete mathematics, the conceptual underpinnings of calculus, and mathematical structure.	52061	02061
Algebra—Other	52069	02069
Informal Geometry Informal Geometry courses emphasize a practical approach to the study of geometry and de-emphasize an abstract, formal approach. Topics typically include properties of and work with plane and solid figures; inductive methods of reasoning and use of logic; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.	52071	02071
Geometry Geometry courses, emphasizing an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.	52072	02072

Course Names/Titles	Non-secondary codes	Secondary codes
Analytic Geometry Analytic Geometry courses include the study of the nature and intersection of lines and planes in space, including vectors, the polar coordinate system, equations and graphs of conic sections, rotations and transformations, and parametric equations.	52073	02073
Principles of Algebra and Geometry Principles of Algebra and Geometry courses combine the study of some pre-algebra and algebra topics with introductory geometry topics. These courses include the study of formulas, algebraic expressions, first degree equations and inequalities, the rectangular coordinate system, area, perimeter, and volume of geometric figures, and properties of triangles and circles.	52074	02074
Particular Topics in Geometry These courses examine specific topics in geometry, such as solid or technical geometry, rather than provide a general study of the field of geometry.	52075	02075
Geometry—Other	52079	02079
Consumer Math Consumer Math courses reinforce general math topics (such as arithmetic using rational numbers, measurement, ratio and proportion, and basic statistics) and apply these skills to consumer problems and situations. Applications typically include budgeting, taxation, credit, banking services, insurance, buying and selling products and services, home and/or car ownership and rental, managing personal income, and investment.	52157	02157
History of Math History of Math courses include a study of the historical development of numbers, computation, algebra, and geometry. Figures critical to the development of mathematics (e.g., Pythagoras, Pascal, Descartes) or important developments (e.g., pi, decimal fractions, probability theory, calculus) often form the backbone of these classes.	52991	02991
Mathematics—Test Preparation Mathematics—Test Preparation courses provide students with activities in analytical thinking and with the skills and strategies associated with standardized test taking (such as the PSAT, SAT, and ACT). Topics covered include strategies for arithmetic, algebra, geometry, and quantitative comparison problems as well as time management, scoring procedures, calculator usage, and test-related stress.	52993	02993
Mathematics Proficiency Development Mathematics Proficiency Development courses are designed to assist students in acquiring the skills necessary to pass proficiency examinations.	52994	02994
Mathematics—Other	52999	02999

Course Names/Titles	Non-secondary codes	Secondary codes
Life and Physical Sciences		
Earth/Space Science (non-secondary)	53008	
<p>Earth/Space Science (non-secondary) covers basic principles of earth and space science. These may include plate tectonics, rocks and the rock cycle, weather, ocean currents, movements of the Earth, moon, and planets, components of the galaxy and universe, or other topics consistent with state academic standards for earth and space science.</p>		
Science (early childhood education)	53028	
Science (pre-kindergarten)	53029	
<p><i>Descriptions not yet developed; may not be possible.</i></p>		
Science (kindergarten)	53030	
<p>Science (kindergarten) courses encourage students to observe and describe properties of organisms, systems, and the environment. Students may raise questions, identify patterns, and record observations. Specific content depends upon state standards for kindergarten.</p>		
Science (grade 1)	53031	
<p>Science (grade 1) courses allow students to identify interactions and patterns in objects and events and record observations in written or visual form. Typically, students investigate systems of living organisms and the environment. Specific content depends upon state standards for grade 1.</p>		
Science (grade 2)	53032	
<p>Science (grade 2) courses continue to introduce students to basic scientific processes and principles. Course content may include identification of patterns, classification and sequencing, or manipulation of systems to observe interactions between parts and record the effects of change. Specific content depends upon state standards for grade 2.</p>		
Science (grade 3)	53033	
<p>Science (grade 3) courses involve observation, measurement, and description of simple systems. Course contents may include the scientific process, life and environment science, and physical, earth, and space science. Specific content depends upon state standards for grade 3.</p>		
Science (grade 4)	53034	
<p>Science (grade 4) courses explore (developmentally appropriate) complex systems, such as plant and animal adaptation, forces and motion, and physical and chemical changes in matter, or contents consistent with state academic standards. Students may identify cause and effects of change, make predictions, and gather data from multiple sources. Specific content depends upon state standards for grade 4.</p>		
Science (grade 5)	53035	
<p>Science (grade 5) courses build on the study of various systems. It may include identification and description of cycles, comparisons of forms of matter and energy, forces, or contents consistent with state academic standards. Students may make comparisons and interpret and analyze information. Specific content depends upon state standards for grade 5.</p>		

Course Names/Titles	Non-secondary codes	Secondary codes
Science (grade 6) Science (grade 6) courses typically include subject matter from several strands of science, including earth/space sciences, physical sciences, and life or environmental sciences and may organize material around thematic units. Specific content depends upon state standards for grade 6.	53036	
Science (grade 7) Science (grade 7) courses build on previous years of scientific inquiry and includes subject matter from several strands of science, including earth sciences, physical sciences, and life or environmental sciences and may organize material around thematic units. Specific content depends upon state standards for grade 7.	53037	
Science (grade 8) Science (grade 8) builds on previous years of scientific inquiry and includes subject matter from several strands of science, including earth sciences, physical sciences, and life or environmental sciences and may organize material around thematic units. Specific content depends upon state standards for grade 8.	53038	
Science <i>Generic “Science” description not yet developed.</i>	53039	
Earth Science—Other	53049	03049
Biology Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.	53051	03051
Particular Topics in Biology Particular Topics in Biology courses concentrate on a particular subtopic within the field of biology (such as botany, zoology, genetics, and so on) that is not otherwise described within this classification system.	53063	03063
Biology—Other	53099	03099
Chemistry Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.	53101	03101
Particular Topics in Chemistry Particular Topics in Chemistry courses concentrate on a particular subtopic within the field of chemistry (such as chromatography and spectrometry) that is not otherwise described in this classification system.	53108	03108

Course Names/Titles	Non-secondary codes	Secondary codes
Chemistry—Other	53149	03149

Life Science 53158

Life Science courses cover the basic principles of life and life processes. These topics may include cells, species, ecosystems, reproduction, genetics, or other topics consistent with state academic standards for life science.

Physical Science (non-secondary) 53159

Physical Science (non-secondary) courses cover basic principles of physical science, such as matter, energy, force, and motion. Topics may include conservation of energy and matter, the atomic model, the periodic table, electricity, or other topics consistent with state academic standards for physical science.

Integrated Science 53201 03201

The specific content of Integrated Science courses varies, but they draw upon the principles of several scientific specialties—earth science, physical science, biology, chemistry, and physics—and organize the material around thematic units. Common themes covered include systems, models, energy, patterns, change, and constancy. These courses use appropriate aspects from each specialty to investigate applications of the theme.

Unified Science 53202 03202

Unified Science courses combine more than one branch of science into a cohesive study or may integrate science with another discipline. General scientific concepts are explored, as are the principles underlying the scientific method and experimentation techniques.

Life and Physical Sciences—Proficiency Development 53994 03994

Life and Physical Sciences—Proficiency Development courses are designed to assist students in acquiring the skills necessary to pass proficiency examinations related to the life sciences and physical sciences.

Life and Physical Sciences—Other 53999 03999

Social Sciences

World Geography 54001 04001

World Geography courses provide students with an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

Particular Topics in Geography 54002 04002

Particular Topics in Geography courses examine a particular topic in geography, such as physical or cultural geography, or the geography of a particular area or region, rather than provide an overview of the field.

Social Studies (early childhood education) 54028

Description not yet developed; may not be possible.

Course Names/Titles	Non-secondary codes	Secondary codes
Social Studies (pre-kindergarten)	54029	
<p>Social Studies (pre-kindergarten) courses provide students with a developmentally appropriate understanding of social studies concepts, helping students begin to develop an understanding of self and others, the concept of time (past and present events), and skills conducive to citizenship, such as group decision-making.</p>		
Social Studies (kindergarten)	54030	
<p>Social Studies (kindergarten) courses generally provide students with initial foundations in the social studies disciplines: history, geography, civics and government, and economics. Specific content depends upon state standards for kindergarten.</p>		
Social Studies (grade 1)	54031	
<p>Social Studies (grade 1) courses develop foundational skills in the social studies disciplines: history, geography, civics and government, and economics. These disciplines are often taught together and organized around a theme. Specific content depends upon state standards for grade 1.</p>		
Social Studies (grade 2)	54032	
<p>Social Studies (grade 2) courses help students reach developmentally appropriate understanding of the social studies disciplines: history, geography, civics and government, and economics. Course study often offer study of these disciplines in an integrated fashion, through the context of a specific theme or discipline, such as state-based social studies or the history of a people. Specific content depends upon state standards for grade 2.</p>		
Social Studies (grade 3)	54033	
<p>Social Studies (grade 3) courses continue to build on previous knowledge and introduce concepts in the social studies disciplines: history, geography, civics and government, and economics. Instruction of the disciplines is often integrated for instructional purposes. Students may study these disciplines through the context of specific theme or discipline, such as state-based social studies or United States history. Specific content depends upon state standards for grade 3.</p>		
Social Studies (grade 4)	54034	
<p>Social Studies (grade 4) courses continue to develop skills in history, geography, civics and government, and economics. Although the four disciplines are typically integrated, these courses may take a more discipline-specific approach, such as concentrating on United States history, state-specific history, or civic engagement for periods of time. Specific content depends upon state standards for grade 4.</p>		
Social Studies (grade 5)	54035	
<p>Social Studies (grade 5) courses continue to develop skills in history, geography, civics and government, and economics. These courses may be more discipline-specific (dividing up state history, United States history, geography, government, and so on). Specific content depends upon state standards for grade 5.</p>		

Course Names/Titles	Non-secondary codes	Secondary codes
Social Studies (grade 6) Social Studies (grade 6) courses provide students with a greater understanding of social studies disciplines, including history, geography, civics and government, and economics. These courses often focus on the history, culture, and government of various specific world societies. Typically, students develop skills used in the social studies disciplines. Specific content depends upon state standards for grade 6.	54036	
Social Studies (grade 7) Social Studies (grade 7) courses provide continued development of understanding and skills in the social studies disciplines: history, geography, civics and government, and economics. Specific content depends upon state standards for grade 7.	54037	
Social Studies (grade 8) Social Studies (grade 8) courses provide continued development of understanding and skills in the social science disciplines: history, geography, civics and government, and economics. Typically, these courses focus on single disciplines at a time (e.g., state-specific history and government, United States history, world history, or civics) to develop discipline-related skills. Specific content depends upon state standards for grade 8.	54038	
Social Studies <i>Generic “Social Studies” K-8 description not yet developed; may be kept as a simple placeholder, with an explanation but no specific description.</i>	54039	
World History—Overview World History—Overview courses provide students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. World History—Overview courses may include geographical studies, but often these components are not as explicitly taught as geography.	54051	04051
World Area Studies World Area Studies courses examine the history, politics, economics, society, and/or culture of one or more regions of the world, such as Africa, Latin America, the former Soviet Union, Far East Asia, and the Middle East. These courses may focus primarily on the history of a particular region or may take an interdisciplinary approach to the contemporary issues affecting the region. Furthermore, these courses may emphasize one particular country (other than the United States), rather than emphasizing a region or continent.	54061	04061
World People Studies World People Studies courses allow students to study various types of subgroups that have something in common such as religion, gender, or culture. Similar in style to World Area Studies, but focusing on a group of people rather than on a specific region, these courses examine a subgroup’s history, politics, economics, and/or culture.	54062	04062

Course Names/Titles	Non-secondary codes	Secondary codes
Western Civilization	54063	04063

Western Civilization courses apply an interdisciplinary approach to the study of western cultural traditions, frequently using a chronological framework. Course content typically includes a survey of the major developments in and contributors to art and architecture, literature, religion and philosophy, and culture. These courses may also cover intellectual and political movements.

Contemporary World Issues	54064	04064
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Contemporary World Issues courses enable students to study political, economic, and social issues facing the world. These courses may focus on current issues, examine selected issues throughout the 20th century, and look at historical causes or possible solutions.

U.S. History—Comprehensive	54101	04101
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U.S. History—Comprehensive courses provide students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement.

State-Specific Studies	54105	04105
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State-Specific Studies courses examine the history, politics, economics, society, and/or cultures of one state in the United States. This course may focus primarily on the history of that state or may take an interdisciplinary approach to the contemporary issues affecting it.

Contemporary U.S. Issues	54106	04106
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Contemporary U.S. Issues courses study the political, economic, and social issues facing the United States, with or without an emphasis on state and local issues. These courses may focus on current issues or may examine selected issues that span throughout the 20th century to the present.

U.S. Ethnic Studies	54107	04107
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U.S. Ethnic courses examine the history, politics, economics, society, and/or culture of one or more of the racial/ethnic groups in the United States. These courses may focus primarily on the history of an individual racial/ethnic group or may take a more comprehensive approach to studying the contemporary issues affecting racial/ethnic groups overall.

U.S. History—Other	54149	04149
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U.S. Government—Comprehensive	54151	04151
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U.S. Government—Comprehensive courses provide an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. These courses may examine the structure and function of state and local governments and may cover certain economic and legal topics.

Course Names/Titles	Non-secondary codes	Secondary codes
Civics	54161	04161

Civics courses examine the general structure and functions of American systems of government, the roles and responsibilities of citizens to participate in the political process, and the relationship of the individual to the law and legal system. These courses do not typically delve into the same degree of detail on constitutional principles or the role of political parties and interest groups as do comprehensive courses in U.S. Government.

Government, Politics and Law—Other	54199	04199
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Social Sciences and History—Other	54999	04999
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Fine and Performing Arts

Dance Technique	55001	05001
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Dance Technique courses provide students with experience in one or several dance forms (e.g., modern, jazz, ballet, and tap). Initial classes are usually introductory in nature, while the more advanced classes concentrate on improving students' technique and may offer or require experience in choreography and dance evaluation.

Dance Repertory	55002	05002
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Dance Repertory courses provide the opportunity for students with prior dance experience to develop dance techniques in small groups; these classes require auditions and emphasize performance.

Expressive Movement	55003	05003
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Expressive Movement courses help develop students' ability to move expressively, without an emphasis on particular dance forms or on developing specific dance techniques.

Dance Appreciation	55004	05004
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Dance Appreciation courses expand students' knowledge of dance as an art form and help develop students' ability to evaluate dance performances. Learning the history of one or several dance forms may also be included as a course objective.

Choreography	55005	05005
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Choreography courses teach students how to arrange and direct dancers' movements. Course content includes application of the elements and principles of dance, study of historical and contemporary dance from a worldwide perspective, and instruction in critique. Course objectives include developing an appreciation of dance as a communicative art form and self-expression. Students sometimes gain performance experience.

Course Names/Titles	Non-secondary codes	Secondary codes
Art (early childhood education)	55028	
Art (pre-kindergarten)	55029	
Art (kindergarten)	55030	
Art (grade 1)	55031	
Art (grade 2)	55032	
Art (grade 3)	55033	
Art (grade 4)	55034	
Art (grade 5)	55035	
Art (grade 6)	55036	
Art (grade 7)	55037	
Art (grade 8)	55038	
Art	55039	

Generic “Art” early childhood education through grade 8 course descriptions not yet developed.

We expect to also create equivalent series for dance, music, and perhaps drama/theater, but need to determine the best location for these series of codes within the Fine Arts subject area.

Dance—Other	55049	05049
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Introduction to the Theater	55051	05051
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Introduction to the Theater courses provide an overview of the art, conventions, and history of the theater. Although the courses sometimes include experiential exercises, they emphasize learning about the theater rather than performance. Students learn about one or more of the following topics: basic techniques in acting, major developments in dramatic literature, major playwrights, the formation of theater as a cultural tradition, and critical appreciation of the art.

Theatre Arts	55052	05052
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Theatre arts courses focus on the study and performance of drama including musical theatre. These courses review a wide range of scripted materials, such as plays, screen plays, teleplays, readers’ theatre scripts, dramatic criticism, creation of original dramatic works, and the role of dramatic arts in society. In addition, students will work collaboratively on performances.

Drama—Comprehensive	55053	05053
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Drama—Comprehensive courses are intended to help develop students’ experience and skill in one or more aspects of theatrical production. Initial courses are usually introductory in nature, providing an overview of the features of drama such as acting, set design, stage management, and so on. The more advanced courses concentrate on improving technique, expanding students’ exposure to different types of theatrical techniques and traditions, and increasing their chances of participating in public productions. These courses may also provide a discussion of career opportunities in the theater.

Course Names/Titles	Non-secondary codes	Secondary codes
Exploration in Drama Exploration in Drama courses are designed to enhance students' understanding of life through the study and performance of dramatic works. They emphasize developing students' ability to express themselves and establish personal criteria for the critical evaluation of drama activities.	55054	05054
Drama—Other	55099	05099
General Band General Band courses develop students' technique for playing brass, woodwind, and percussion instruments and cover a variety of nonspecified band literature styles (concert, marching, orchestral, and modern styles).	55101	05101
Concert Band Courses in Concert Band are designed to promote students' technique for playing brass, woodwind, and percussion instruments and cover a variety of band literature styles, primarily for concert performances.	55102	05102
Marching Band Courses in Marching Band are intended to develop students' technique for playing brass, woodwind, and percussion instruments and cover appropriate band literature styles, primarily for marching performances.	55103	05103
Orchestra Orchestra courses are designed to develop students' abilities to play brass, woodwind, percussion, and string instruments, covering a variety of string and orchestral literature styles.	55104	05104
Contemporary Band Contemporary Band courses help students develop their techniques for playing brass, woodwind, percussion, and string instruments, as well as guitars and keyboards, focusing primarily on contemporary stage band literature styles, such as traditional jazz, jazz improvisation, and rock.	55105	05105
Instrumental Ensembles Instrumental Ensemble courses are intended to develop students' technique for playing brass, woodwind, percussion, and/or string instruments in small ensemble groups. Instrumental Ensemble courses cover one or more instrumental ensemble or band literature styles.	55106	05106
Chorus Chorus courses provide the opportunity to sing a variety of choral literature styles for men's and/or women's voices and are designed to develop vocal techniques and the ability to sing parts.	55110	05110

Course Names/Titles	Non-secondary codes	Secondary codes
Vocal Ensembles	55111	05111

Vocal Ensemble courses are intended to develop vocal techniques and the ability to sing parts in small ensemble or madrigal groups. Course goals may include the development of solo singing ability and may emphasize one or several ensemble literature styles.

Music History/Appreciation	55116	05116
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Music History/Appreciation courses survey different musical styles and periods with the intent of increasing students' enjoyment of musical styles and/or developing their artistic or technical judgment. Music History/Appreciation courses may also focus on developing an understanding of a particular style or period.

Music Appreciation	55118	05118
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Similar in nature to Music History/Appreciation courses, Music Appreciation courses focus specifically on students' appreciation of music. They are designed to help students explore the world of music and to develop an understanding of the importance of music in their lives.

Music—Other	55149	05149
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Art Appreciation	55151	05151
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Art Appreciation courses introduce students to the many forms of art and help them form an aesthetic framework through which they can judge and critique art of various ages and cultures. These courses also explore the place and significance of art in our society.

Art History	55152	05152
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Art History courses introduce students to significant works of art, artists, and artistic movements that have shaped the art world and have influenced or reflected periods of history. These courses often emphasize the evolution of art forms, techniques, symbols, and themes.

Crafts	55165	05165
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Crafts courses teach the same lessons as Creative Art—Comprehensive courses, but do so with a focus on crafts. These courses may survey a wide range of crafts, or they may focus on only one type of craft; possibilities include calligraphy, quilting, silk-screening, cake-decorating, tole-painting, mask-making, knitting, crocheting, paper-making, and so on.

Photography	55167	05167
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Photography courses expose students to the materials, processes, and artistic techniques of taking artistic photographs. Students learn about the operation of a camera, composition, lighting techniques, depth of field, filters, camera angles, and film development. The course may cover black-and-white photography, color photography, or both. As students advance, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic style. These courses may also cover major photographers, art movements, and styles.

Course Names/Titles	Non-secondary codes	Secondary codes
Film/Videotape	55168	05168

Film/Videotape courses expose students to the materials, processes, and artistic techniques involved in film, television, or videotape. Students learn about the operation of a camera, lighting techniques, camera angles, depth of field, composition, storyboarding, sound capture, and editing techniques. Course topics may also include production values and various styles of filmmaking (documentary, storytelling, news magazines, animation, and so on). As students advance, the instruction becomes more refined, and students are encouraged to develop their own artistic style. Students may also study major filmmakers, cinematographers, and their films and learn about film, television, and video and their relationships to drama and theater.

Visual Arts—Other	55199	05199
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Integrated Fine Arts	55201	05201
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Integrated Fine Arts courses explore self-expression across the fine arts: any subset or all of the visual arts, music, drama, theater, and literature may be included in the curriculum for these courses. Students both study and critique the works of others and participate in or produce art themselves. These courses often include comparative study of various art forms over time—i.e., the interrelationship of literature, music, and the performing arts of a particular time period and culture.

Fine and Performing Art—Other	55999	05999
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Foreign Language and Literature

Foreign Language (early childhood education)	56028
Foreign Language (pre-kindergarten)	56029
Foreign Language (kindergarten)	56030
Foreign Language (grade 1)	56031
Foreign Language (grade 2)	56032
Foreign Language (grade 3)	56033
Foreign Language (grade 4)	56034
Foreign Language (grade 5)	56035
Foreign Language (grade 6)	56036
Foreign Language (grade 7)	56037
Foreign Language (grade 8)	56038
Foreign Language	56039

Generic “Foreign Language” K-8 description not yet developed; may be kept as a simple placeholder, with an explanation but no specific description.

Course Names/Titles	Non-secondary codes	Secondary codes
Spanish	56100	
<p>Spanish courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the Spanish language and students' knowledge of Spanish-speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and the spoken accent so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).</p>		
French	56120	
<p>French courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the French language and students' knowledge of French-speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and the spoken accent so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of French-speaking people to deepen their understanding of the culture(s).</p>		
Italian	56140	
<p>Italian courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the Italian language and students' knowledge of Italian-speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and the spoken accent so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of Italian-speaking people to deepen their understanding of the culture(s).</p>		
Portuguese	56160	
<p>Spanish courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the Spanish language and students' knowledge of Spanish-speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and the spoken accent so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to o so more easily. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).</p>		

Course Names/Titles	Non-secondary codes	Secondary codes
German	56200	

German courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the German language and students' knowledge of German-speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and the spoken accent so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of German-speaking people to deepen their understanding of the culture(s).

Greek	56280	
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Greek courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the Greek language and students' knowledge of Greek-speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and vocal tones so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of Greek-speaking people to deepen their understanding of the culture(s).

Latin	56300	
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Latin courses introduce and then extend students' skills in reading and writing Latin language and students' knowledge of Roman life and culture. Initial courses emphasize structures, forms, grammar and syntax, and vocabulary, so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand original Latin texts), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of Rome to deepen their understanding of the culture(s).

Classical Greek	56320	
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Classical Greek courses introduce and then extend students' skills in reading and writing classical Greek language and students' knowledge of Grecian life and culture. Initial courses emphasize structures, forms, grammar and syntax, and vocabulary, so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand original Greek texts), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of ancient Greece to deepen their understanding of the culture(s).

Course Names/Titles	Non-secondary codes	Secondary codes
Chinese	56400	

Chinese courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the Chinese language and students' knowledge of Chinese-speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and vocal tones so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of Chinese-speaking people to deepen their understanding of the culture(s).

Japanese	56420	
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Japanese courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the Japanese language and students' knowledge of Japanese-speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and the spoken accent so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of Japanese-speaking people to deepen their understanding of the culture(s).

Korean	56440	
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Korean courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the Korean language and students' knowledge of Korean-speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and vocal tones so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of Korean-speaking people to deepen their understanding of the culture(s).

Vietnamese	56500	
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Vietnamese courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the Vietnamese language and students' knowledge of Vietnamese-speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and vocal tones so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of Vietnamese-speaking people to deepen their understanding of the culture(s).

Course Names/Titles	Non-secondary codes	Secondary codes
Filipino	56520	

Filipino courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the Filipino language and students' knowledge of Filipino -speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and the spoken accent so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of Filipino -speaking people to deepen their understanding of the culture(s).

Russian	56601	
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Russian courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the Russian language and students' knowledge of Russian-speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and vocal tones so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of Russian-speaking people to deepen their understanding of the culture(s).

Hebrew	56700	
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Hebrew courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the Hebrew language and students' knowledge of Hebrew -speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and the spoken accent so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of Hebrew -speaking people to deepen their understanding of the culture(s).

Arabic	56720	
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Arabic courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the Arabic language and students' knowledge of Arabic-speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and vocal tones so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of Arabic-speaking people to deepen their understanding of the culture(s).

Course Names/Titles	Non-secondary codes	Secondary codes
Swahili	56760	

Swahili courses introduce and then extend students' skills in speaking, reading, writing, and comprehending the Swahili language and students' knowledge of Swahili-speaking cultures. Initial courses emphasize grammar and syntax, vocabulary, and vocal tones so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of Swahili-speaking people to deepen their understanding of the culture(s).

American Sign Language	56800	
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American Sign Language courses introduce and then extend students' ability to communicate with deaf persons through finger spelling, signed words, and gestures. Initial courses emphasize vocabulary and physical expression so that students have an understanding of the language and its rules and conventions. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others), seeking to enable students to express more complex concepts, and to do so more easily. Course topics may include the culture of and issues facing deaf people.

American Indian Language	56820	
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American Indian Language courses introduce and then extend students' skills in speaking, reading, writing, and comprehending an American Indian language (e.g., Navajo, Cherokee, and Kree) and students' knowledge of Native American cultures. Initial courses emphasize grammar and syntax, vocabulary, and vocal tones so that students have an understanding of the language and its rules. Later courses advance students' knowledge and ability to express themselves beyond basic communication (and understand others, either in a written or verbal format), seeking to enable students to express more complex concepts, in different tenses, and to do so more easily. Students usually explore the customs, history, and art forms of Native American people to deepen their understanding of the culture(s).

Foreign Language and Literature—Other	56999	06999
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Religious Education and Theology

Religious Foundations	57001	07001
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Religious Foundations courses' primary objectives include instruction in the history, tenets, and organization of a religion; development of personal faith and conviction; and exposure to the ways in which daily life may reflect personal religious beliefs. These courses typically include various components particular to a specific religion, such as religious sacraments and symbols, food laws, the authority and structure of the church, the church calendar, and so on.

Scriptures	57005	07005
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Scriptures courses emphasize understanding and interpreting the sacred writings of a faith (such as the Bible, Torah, Koran, Book of Mormon, and so on) from the standpoint of a religious faith. Course objectives are designed so that students may comprehend the theological, doctrinal, and ethical messages contained within religious scriptures.

Course Names/Titles	Non-secondary codes	Secondary codes
Old Testament Old Testament courses emphasize understanding and interpreting the sacred writings of the Old Testament from the standpoint of a religious faith and may focus on one or several books. Course content typically focuses on themes, theological concepts, and portrayal of ethical messages, but may also include critique and commentary.	57006	07006
New Testament New Testament courses emphasize understanding and interpreting the sacred writings of the New Testament from the standpoint of a religious faith and may focus on one or several religious books. Course content typically focuses on themes, theological concepts, and portrayal of ethical messages, but may also include critique and commentary.	57007	07007
Bible History Bible History courses treat the Bible as a historical document and provide an overview of significant biblical events. The content usually includes geography; the relationship among cultures, belief systems, and the events chronicled in the Bible; and early Jewish or Christian Church history.	57008	07008
Faith and Lifestyle Faith and Lifestyle courses focus on the development of young adults from puberty to adulthood, approached from the perspective of a faith or church. In these courses, the religion's values and traditions provide an underpinning for examining such topics as identity, independence, sexuality, employment, and leisure. Typically, Faith and Lifestyle courses include discussions about adult roles—single life, marriage, religious life, and ordained ministry.	57015	07015
Religious Education and Theology—Other	57999	07999
Physical, Health, and Safety Education		
Physical Education Physical Education courses provide students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities.	58001	08001
Team Sports Team Sports courses provide students with knowledge, experience, and an opportunity to develop skills in more than one team sport (such as volleyball, basketball, soccer, and so on).	58002	08002
Individual/Dual Sports Individual/Dual Sports courses provide students with knowledge, experience, and an opportunity to develop skills in more than one individual or dual sport (such as tennis, golf, badminton, jogging/running, racquetball, and so on).	59003	08003

Course Names/Titles	Non-secondary codes	Secondary codes
Recreation Sports	58004	08004

Recreation sports courses provide students with knowledge, experience, and an opportunity to develop skills in more than one recreational sport or outdoor pursuit (such as adventure activities, croquet, frisbee, wall climbing, bocce ball, fishing, hiking, cycling, and so on).

Fitness/Conditioning Activities	58005	08005
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Fitness/Conditioning Activities courses emphasize conditioning activities that help develop muscular strength, flexibility, and cardiovascular fitness.

Adapted Physical Education	58007	08007
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These courses provide physical education activities (sports, fitness, and conditioning) adapted for students with special needs.

Gymnastics	58008	08008
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Gymnastics courses are designed to help students develop knowledge and skills in gymnastics, stunts, and tumbling while emphasizing safety. Floor gymnastics may be supplemented by the use of gymnastic equipment such as balance beam, uneven bars, parallel bars, rings, and so on. Gymnastic courses may include other components such as the history of gymnastics and conditioning.

Aquatics/Water Sports	59010	08010
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Aquatic Sports courses help students develop skills useful or necessary in an aquatic environment. They may focus on swimming and competitive strokes, such as freestyle, breaststroke, butterfly, and so on or may involve team-oriented water sports, such as water polo and relay swimming. These courses may also include (or concentrate exclusively on) diving and/or lifesaving skills.

Specific Sports Activities	58013	08013
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Courses in Specific Sports Activities help students develop knowledge, experience, and skills in a single sport or activity (such as basketball, volleyball, track and field, and equestrian events) other than those coded within this section. (Dance is included under the Fine and Performing Arts subject area.)

Physical Education Equivalent	58014	08014
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These courses award physical education credit for other at-school activities, such as marching band or cheer leading. (Dance is included under the Fine and Performing Arts subject area.)

Off-Campus Sports	58015	08015
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These courses award physical education credit for off-campus sports activities (e.g., swimming, weight training, or any individual or team sports) taken at a community center or other location off the school campus.

Course Names/Titles	Non-secondary codes	Secondary codes
Lifetime Fitness Education	58016	08016
These courses emphasize acquiring knowledge and skills regarding lifetime physical fitness; content may include related topics such as nutrition, stress management, and consumer issues. Students may develop and implement a personal fitness plan.		
Physical Education (early childhood education)	58028	
Physical Education (pre-kindergarten)	58029	
<i>Descriptions not yet developed; may not be possible.</i>		
Physical Education (kindergarten)	58030	
Physical Education (grade 1)	58031	
Physical Education (grade 2)	58032	
Physical Education (grade 3)	58033	
Physical Education (grade 4)	58034	
Physical Education (grade 5)	58035	
Physical Education (grade 6)	58036	
Physical Education (grade 7)	58037	
Physical Education (grade 8)	58038	
Physical Education	58039	
<i>Generic "Physical Education" K-8 description not yet developed.</i>		
Physical Education—Other	58049	08049
Health Education	58051	08051
Topics covered within Health Education courses may vary widely, but typically include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues. The courses may also include brief studies of environmental health, personal development, and/or community resources.		
Health and Fitness	58052	08052
Health and Fitness courses combine the topics of Health Education courses (nutrition, stress management, substance abuse prevention, disease prevention, first aid, and so on) with an active fitness component (typically including aerobic activity and fitness circuits) with the intention of conveying the importance of life-long wellness habits.		
Health and Life Management	58057	08057
Substance Abuse Prevention	58058	08058
Health Education—Other	58099	08099
Physical, Health, and Safety Education—Other	58999	08999

Military Science subject area not included at the non-secondary level

Course Names/Titles	Non-secondary codes	Secondary codes
Computer and Information Sciences		
Introduction to Computers	60001	10001
<p>Introduction to Computer courses introduce students to computers and peripheral devices, the functions and uses of computers, the language used in the computer industry, possible applications of computers, and occupations related to computer hardware and software. These courses typically explore legal and ethical issues associated with computer use, as well as how computers influence modern society. Students may also be required to perform some computer operations.</p>		
Computing Systems	60002	10002
<p>Computing Systems courses offer a broad exploration of the use of computers in a variety of fields. These courses have a considerable range of content, but typically include the introduction of robotics and control systems, computer-assisted design, computer-aided manufacturing systems, and other computer technologies as they relate to industry applications.</p>		
Computer and Information Technology	60003	10003
<p>Computer and Information Technology courses teach students to operate and use computer and information technology, emphasizing their role as tools to communicate more effectively, conduct research more efficiently, and increase productivity. Course content includes the legal and ethical issues involved with computer technology and use.</p>		
Computer Applications	60004	10004
<p>In Computer Applications courses, students acquire knowledge of and experience in the proper and efficient use of previously written software packages. These courses explore a wide range of applications, including (but not limited to) word-processing, spreadsheet, graphics, and database programs, and they may also cover the use of electronic mail and desktop publishing.</p>		
Computer Literacy—Other	60049	10049
Computer Literacy	60100	
<p>Computer Literacy courses align content with state standards to promote students' technological literacy. <i>Further development to come.</i></p>		
Web Page Design	60201	10201
<p>Web Page Design courses teach students how to design web sites by introducing them to and refining their knowledge of site planning, page layout, graphic design, and the use of markup languages—such as Extensible Hypertext Markup, JAVA Script, Dynamic HTML, and Document Object Model—to develop and maintain a web page. These courses may also cover security and privacy issues, copyright infringement, trademarks, and other legal issues relating to the use of the Internet. Advanced topics may include the use of forms and scripts for database access, transfer methods, and networking fundamentals.</p>		

Course Names/Titles	Non-secondary codes	Secondary codes
Computer Graphics	60202	10202

Computer Graphics courses provide students with the opportunity to explore the capability of the computer to produce visual imagery and to apply graphic techniques to various fields, such as advertising, TV/video, and architecture. Typical course topics include modeling, simulation, animation, and image retouching.

Interactive Media	60203	10203
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Interactive Media courses provide students with the knowledge and skills to create, design, and produce interactive media products and services. The courses may emphasize the development of digitally generated and/or computer-enhanced media. Course topics may include 3D animation, graphic media, web development, and virtual reality. Upon completion of these courses, students may be prepared for industry certification.

Computer and Information Sciences—Other	60999	10999
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Communication and Audio/Video Technology

Introduction to Communication	61001	11001
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Introduction to Communication courses enable students to understand and critically evaluate the role of media in society. Course content typically includes investigation of visual images, printed material, and audio segments as tools of information, entertainment, and propaganda; improvement of presentation and evaluative skills in relation to mass media; recognition of various techniques for delivery of a particular message; and, in some cases, creation of a media product. The course may concentrate on a particular medium.

Communication Technology	61002	11002
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Communication Technology courses enable students to effectively communicate ideas and information through experiences dealing with drafting, design, electronic communication, graphic arts, printing process, photography, telecommunications, and computers. Additional topics covered in the course include information storage and retrieval. Drafting equipment may be used to make scale drawings, including multi-view drawing, photographs, and poster mock-ups.

Particular Topics in Communication	61003	11003
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These courses examine specific topics in communication other than those already described.

Communication—Other	61049	11049
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Audio/Visual Production	61051	11051
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Audio/Visual Production courses provide students with the knowledge and skills necessary for television, video, film, and/or radio production. Writing scripts, camera operation, use of graphics and other visuals, lighting, audio techniques, editing, production principles, and career opportunities are typical topics covered within production courses. Students are usually required to produce their own program or segment. Additional topics such as broadcast industry regulations, radio/TV operation, power of the medium, photography, transmission technology, and so on may be included.

Course Names/Titles	Non-secondary codes	Secondary codes
Commercial Photography Commercial Photography courses provide instruction in the use of cameras and laboratory film-processing techniques. Topics covered in the course include composition and color dynamics; contact printing; enlarging; developing film; use of camera meters, air brushes, and other photographic equipment; portrait, commercial, and industrial photography; processing microfilm; and preparing copy for printing or for graphic-arts processing.	61052	11052
Photographic Laboratory and Darkroom Photographic Laboratory and Darkroom courses prepare students to develop and print still or motion picture film. Topics covered in the course may include controlling resultant prints; touching up negatives; and finishing, coloring, restoring, and copying prints.	61053	11053
Photo Imaging Photo Imaging courses provide students with the opportunity to effectively communicate ideas and information via digital, film, still and video photography. Topics covered typically include composition, layout, lighting and supplies. More advanced courses may include instruction in specialized camera and equipment maintenance, application to commercial and industrial need and photography business operations.	61054	11054
Video Video courses enable students to explore video communications, incorporating both the technical and artistic aspects of video media. Topics covered in the course include the use of video equipment and techniques, and students typically create a video presentation. Advanced course topics may include creating various forms of film media including silent film; sport and music video; and self portrait video.	61055	11055
Particular Topics in Audio/Video Technology and Film These courses examine specific topics in audio and video technology and film other than those already described.	61056	11056
Audio/Video Technology and Film—Other	61099	11099
Journalism Journalism courses (typically associated with the production of a school newspaper, yearbook, or literary magazine) emphasize writing style and technique as well as production values and organization. Journalism courses introduce students to the concepts of newsworthiness and press responsibility; develop students' skills in writing and editing stories, headlines, and captions; and teach students the principles of production design, layout, and printing. Photography and photojournalism skills may be included.	61101	11101

Course Names/Titles	Non-secondary codes	Secondary codes
Photojournalism Photojournalism courses expose students to the manner in which photography is used to convey information and experiences. Typically coordinated with production of the school newspaper, yearbook, or other media product, photojournalism courses provide students with the opportunity to improve their photo composition and film development skills, and to apply their art to journalistic endeavors.	61102	11102
Broadcasting Technology Broadcasting Technology courses provide students with the knowledge and skills to produce television broadcast programs. Typically, students prepare and produce short programs, learning the technical aspects of the operation and how to evaluate programming and assess audience reaction and impact.	61103	11103
Publication Production Publication Production courses provide students with the knowledge and skills necessary to produce the school newspaper, yearbook, literary magazine, or other printed publication. Students may gain experience in several components (writing, editing, layout, production, and so on) or may focus on a single aspect while producing the publication.	61104	11104
Particular Topics in Journalism and Broadcasting These courses examine specific topics in journalism and broadcasting other than those already described.	61105	11105
Journalism and Broadcasting—Other	61149	11149
Digital Media Technology These courses are designed to give students the skills necessary to support and enhance their learning about digital media technology. Topics covered in the course may include internet research, copyright laws, web-publishing, use of digital imagery, electronic forums, newsgroups, mailing lists, presentation tools, and project planning.	61151	11151
Desktop Publishing Desktop Publishing courses integrate the knowledge and skills learning in word processing with the concepts, procedures and application of desktop publishing. Students learn to format, create and proofread brochures, programs, newsletters, web pages, presentations and manuscripts.	61152	11152
Printing Technology—Other	61199	11199
Communication and Audio/Video Technology—Other	61999	11999

Course Names/Titles	Non-secondary codes	Secondary codes
Business and Marketing		
Business/Office Career Exploration	62001	12001
<p>Business/Office Career Exploration courses expose students to the occupational opportunities available in the accounting, administration, data processing, management, and secretarial fields. Emphasis is placed on responsibilities, qualifications, work environment, and career paths. These courses may also include consumer education topics, keyboard exposure, and/or hands-on experience within the various occupational areas.</p>		
Keyboarding	62005	12005
<p>Keyboarding courses provide students with an introduction to the keyboard (letters, numbers, and symbols), basic machine operation, and proper keystroke technique. As students progress, they improve their speed and accuracy and produce increasingly complex documents. Such courses help students develop keyboard proficiency, document production skills, and problem-solving skills.</p>		
Word Processing	62006	12006
<p>Word Processing courses introduce students to automated document production using one or more software packages. These courses may introduce keyboarding techniques or may require prior experience; in either case, speed and accuracy are emphasized. A parallel focus is placed on the use of software commands and functions to create, edit, format, and manipulate documents, capitalizing on the power offered by word processing software programs. These courses may also cover file and disk management and other computer-related skills.</p>		
Introductory Business	62051	12051
<p>Introductory Business courses survey an array of topics and concepts related to the field of business. These courses introduce business concepts such as banking and finance, the role of government in business, consumerism, credit, investment, and management. They usually provide a brief overview of the American economic system and corporate organization. Introductory Business courses may also expose students to the varied opportunities in secretarial, accounting, management, and related fields.</p>		
Banking and Finance	62101	12101
<p>Banking and Finance courses provide students with an overview of the American monetary and banking system as well as types of financial institutions and the services and products that they offer. Course content may include government regulations; checking, savings, and money market accounts; loans; investments; and negotiable instruments.</p>		
Business and Marketing—Other	62999	12999

Course Names/Titles	Non-secondary codes	Secondary codes
Manufacturing		
Exploration of Manufacturing Occupations	63001	13001
Exploration of Manufacturing Occupations courses introduce and expose students to the career opportunities pertaining to the processing and production of goods. Course topics vary and may include (but are not limited to) systems pertinent to the manufacturing process, properties of various raw materials, and the methods used to transform materials into consumer products. Course activities depend upon the careers being explored; course topics may include entrepreneurship, labor laws, and customer service.		
Material and Processes	63052	13052
Materials and Processes courses expose students to the tools, machines, and processes that may be encountered in manufacturing-related occupations. In particular, these courses stress the analysis, testing, and processing of metals, plastics, woods, ceramics, and composite materials.		
Manufacturing—Other	63999	13999
Health Care Sciences		
Exploration of Health Care Occupations	64001	14001
Exploration of Health Care Occupations courses expose students to the variety of opportunities available within the health care industry (e.g., such as nursing, therapy, dental care, administrative services, and lab technology). These courses provide experiences in several of these occupational clusters, along with information and knowledge related to the health care industry as a whole.		
Health Care Occupations—Comprehensive	64002	14002
Health Care Occupations—Comprehensive courses provide students with an orientation to the health care industry and help refine their health care-related knowledge and skills. Topics covered usually include (but are not limited to) an overview of health care delivery; patient care, including assessment of vital signs, body mechanics, and diet; anatomy and physiology; identification and use of medical equipment and supplies; medical terminology; hygiene and disease prevention; first aid and CPR procedures; laboratory procedures; and ethical and legal responsibilities.		
Health Care Sciences—Other	64999	14999
Public, Protective, and Government Services		
Exploration of Public Service Careers	65001	15001
Exploration of Public Service Careers courses expose students to the duties, responsibilities, requirements, and career opportunities within public service. Course topics vary and may include (but are not limited to) protective services; correction, judicial, and probation services; fire protection and fire fighting; public administration; and social work. Course activities depend upon the career clusters that students explore.		
Public, Protective, and Government Services—Other	65999	15999

Course Names/Titles	Non-secondary codes	Secondary codes
Hospitality and Tourism		
Exploration of Hospitality Careers	66001	16001
Exploration of Hospitality Careers courses survey a wide array of topics while exposing students to the variety of career opportunities in hospitality fields (such as food service, lodging, tourism, and recreation). These courses serve to introduce students to the general field of hospitality, providing an opportunity to identify a focus for continued study.		
Hospitality and Tourism—Other	66999	16999
Architecture and Construction		
Construction Careers Exploration	67001	17001
Construction Career Exploration courses expose students to the opportunities available in construction-related trades, such as carpentry, masonry, air conditioning/refrigeration, plumbing, and so on. Students learn about the processes involved in construction projects and may engage in a variety of small projects. These courses emphasize responsibilities, qualifications, work environment, rewards, and career paths within construction-related fields.		
Construction—Comprehensive	67002	17002
Construction—Comprehensive courses provide students with basic knowledge and skills required for construction of commercial, residential, and institutional structures. These courses provide experiences and information (typically including career opportunities and training requirements) regarding construction-related occupations such as carpentry, cabinetmaking, bricklaying, electrical trades, plumbing, concrete masonry, and so on. Students engage in activities such as reading blueprints, preparing building sites, starting foundations, erecting structures, installing utilities, finishing surfaces, and providing maintenance.		
Architecture and Construction—Other	67999	17999
Agriculture and Natural Resources		
Introduction to Agriculture and Natural Resources	68001	18001
Introduction to Agriculture courses survey a wide array of topics within the agricultural industry, exposing students to the many and varied types of agriculture and livestock career opportunities and to those in related fields (such as natural resources). These courses serve to introduce students to the agricultural field, providing them an opportunity to identify an area for continued study or to determine that their interest lies elsewhere. They often focus on developing communication skills, business principles, and leadership skills.		
Agriculture—Comprehensive	68002	18002
Agriculture—Comprehensive courses cover a wide range of agricultural topics, including plant and animal science, production, and processing; agricultural mechanics, including tool and machine operation and repair; construction and repair of farm structures; business operations and management; and the careers available in the agricultural industry. They may also include topics such as chemical and soil science, ecology, agricultural marketing, and veterinary science.		
Agriculture and Natural Resources—Comprehensive	68003	18003

Course Names/Titles	Non-secondary codes	Secondary codes
Agriculture, Food, and Natural Resources—Other	68999	18999

Human Services

Human Services Career Exploration	69001	19001
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Human Services Career Exploration courses introduce and expose students to the career opportunities pertaining to the provision of personal and consumer services for other human beings. Course topics vary and may include (but are not limited to) caring for others, education, cosmetology, apparel/textiles, entrepreneurship, labor laws, and customer service. Course activities depend upon the careers being explored.

Human Services—Other	69999	19999
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Transportation, Distribution, and Logistics

Exploration of Transportation, Distribution and Logistics	70001	20001
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Exploration of Transportation, Distribution, and Logistics courses introduce students to careers that involve the planning, management, and movement of people, materials, and products using any of several modes of transport. Such careers may also involve infrastructure, vehicular maintenance and repair, and operating or managing facilities that hold what is being transported. Therefore, specific course topics vary widely and depend upon the careers being explored.

Transportation, Distribution, and Logistics—Other	70999	20999
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Engineering and Technology

Pre-Engineering Technology	71001	21001
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Pre-Engineering Technology courses integrate technology-oriented applications of mathematics and science into pre-engineering activities for students. Course topics may include material sciences, technology processes, enterprises, and career opportunities.

Engineering Applications	71002	21002
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Engineering Applications courses provide students with an overview of the practical uses of a variety of engineering applications. Topics covered usually include hydraulics, pneumatics, computer interfacing, robotics, computer-aided design, computer numerical control, and electronics.

Engineering Technology	71003	21003
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Engineering Technology courses provide students with the opportunity to focus on one or more areas of industrial technology. Students apply technological processes to solve real engineering problems; develop the knowledge and skills to design, modify, use, and apply technology; and may also design and build prototypes and working models. Topics covered in the course include the nature of technology, use of technology, and design processes.

Principles of Engineering	71004	21004
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Principles of Engineering courses provide students with an understanding of the engineering/technology field. Students typically explore how engineers use various technology systems and manufacturing processes to solve problems; they may also gain an appreciation of the social and political consequences of technological change.

Course Names/Titles	Non-secondary codes	Secondary codes
Engineering—Comprehensive Engineering—Comprehensive courses introduce students to and expand their knowledge of major engineering concepts such as modeling, systems, design, optimization, technology-society interaction, and ethics. Particular topics often include applied engineering graphic systems, communicating technical information, engineering design principles, material science, research and development processes, and manufacturing techniques and systems. The courses may also cover the opportunities and challenges in various branches of engineering.	71005	21005
Engineering Design Engineering Design courses offer students experience in solving problems by applying a design development process. Often using solid modeling computer design software, students develop, analyze, and test product solutions models as well as communicate the features of those models.	71006	21006
Robotics Robotics courses develop and expand students' skills and knowledge so that they can design and develop robotic devices. Topics covered in the course may include mechanics, electrical and motor controls, pneumatics, computer basics, and programmable logic controllers.	71009	21009
Engineering—Other	71049	21049
Technological Literacy Technological Literacy courses expose students to the communication, transportation, energy, production, biotechnology, and integrated technology systems and processes that affect their lives. The study of these processes enables students to better understand technological systems and their applications and uses.	71051	21051
Technology—Other	71099	21099
Miscellaneous		
Standardized Test Preparation Standardized Test Preparation courses help prepare students for national standardized tests such as the PSAT, SAT, and ACT. In particular, these courses assist students in developing and/or expanding their vocabulary, test-taking, and reasoning skills through study, lecture, and practice drills. Course topics may include vocabulary review; root words, prefixes, and suffixes; mathematical concepts, logic, and rules; and general problem-solving and test-taking strategies.	72001	22001
State Test Preparation State Test Preparation courses prepare students for particular state tests required for graduation. These courses may cover specific content areas (such as citizenship, mathematics, language arts, and so on) according to individual student needs, or they may provide a more general course of study, similar to the Standardized Test Preparation course described above.	72002	22002

Course Names/Titles	Non-secondary codes	Secondary codes
Study Skills	72003	22003
<p>Study Skills courses prepare students for success in high school and/or for postsecondary education. Course topics may vary according to the students involved, but typically include reading improvement skills, such as scanning, note-taking, and outlining; library and research skills; listening and note-taking; vocabulary skills; and test-taking skills. The courses may also include exercises designed to generate organized, logical thinking and writing.</p>		
Dropout Prevention Program	72004	22004
<p>Dropout Prevention Program courses vary widely, but typically are targeted at students who have been identified as being at risk of dropping out of or failing in school. Course content may include study skills and individual tutorials; job preparation, readiness, application, or interview skills; communication skills; personal assessment and awareness activities; speaker presentations; and small group seminars.</p>		
Tutorial	72005	22005
<p>Tutorial courses provide students with the assistance they need to successfully complete their coursework. Students may receive help in one or several subjects.</p>		
Study Hall	72006	22006
<p>Study Hall courses provide students with the opportunity and time to complete classroom assignments or school projects. Students typically work on their own, without the help of a tutor; however, they are supervised and usually remain in the classroom.</p>		
Leadership	72101	22101
<p>Leadership courses are designed to strengthen students' personal and group leadership skills. Typically intended for students involved in extracurricular activities (especially as officers of organizations or student governing bodies), these courses may cover such topics as public speaking, effective communication, human relations, parliamentary law and procedures, organization and management, and group dynamics.</p>		
School Orientation	72102	22102
<p>School Orientation courses provide students with an introduction to the culture of their school so that they understand staff expectations and the school's structure and conventions. These courses may vary widely according to the philosophy, aims, and methods of each school.</p>		
School Governance	72103	22103
<p>School Governance courses convene students as an entire student body to discuss common concerns, organize groups for action, make decisions, and solve school-related problems. Because of the nature of these courses, they are typically offered at private, alternative, or experimental schools.</p>		
Community Service	72104	22104
<p>Community Service courses provide students with the opportunity to volunteer their time, energy, and talents to serve a community project or organization. These courses are usually (but not always) conducted with a seminar component, so that students can use their volunteer experiences to learn how to solve problems, make decisions, and communicate effectively.</p>		

Course Names/Titles	Non-secondary codes	Secondary codes
<p>Values Clarification</p> <p>Values Clarification courses enable students to explore individual and societal actions and implications in order to help them develop personal values and make decisions about their lives. Examples of discussion topics include philosophy and religion, world resource allocation, genetic engineering, environmental issues, and death-related issues (euthanasia, suicide, and abortion).</p>	72105	22105
<p>Seminar</p> <p>Seminar courses vary widely, but typically offer a small peer group the opportunity to investigate areas of interest. Course objectives may include improvement of research and investigatory skills, presentation skills, interpersonal skills, group process skills, and problem-solving and critical-thinking skills. Seminars aimed at juniors and seniors often include a college and career exploration and planning component.</p>	72106	22106
<p>Career Exploration</p> <p>Career Exploration courses help students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. These courses expose students to various sources of information on career and training options and may also assist them in developing job search and employability skills.</p>	72151	22151
<p>Employability Skills</p> <p>Employability Skills courses help students match their interests and aptitudes to career options with a focus on using employment information effectively, acquiring and improving job-seeking and interview skills, composing job applications and resumes, and learning the skills needed to remain in and advance within the workplace. Course content may also include consumer education and personal money management topics.</p>	72152	22152
<p>Family and Consumer Science—Comprehensive</p> <p>Family and Consumer Science—Comprehensive courses are inclusive studies of the knowledge and skills that are useful for the efficient and productive management of the home. Course topics typically include foods and nutrition; clothing; child development and care; housing design, decoration, and maintenance; consumer decisions and personal financial management; and interpersonal relationships.</p>	72201	22201
<p>Food and Nutrition</p> <p>Food and Nutrition courses provide students with an understanding of food's role in society, instruction in how to plan and prepare meals, experience in the proper use of equipment and utensils, and background on the nutritional needs and requirements for healthy living. Some classes place a heavier emphasis on the nutritional components of a balanced diet, while others concentrate on specific types of food preparation. Although these courses may present career opportunities in the food service industry, their emphasis is not career-related.</p>	72202	22202

Course Names/Titles	Non-secondary codes	Secondary codes
Food Science	72203	22203

Food Science courses offer opportunities to study the composition, structure, and properties of foods and the chemical changes that occur during the processing, storage, preparation, and consumption of food. These courses often explore the effects of various materials, microorganisms, and processes on food products through laboratory experiments.

Clothing/Sewing	72205	22205
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Clothing/Sewing courses introduce students to and expand their knowledge of various aspects of wearing apparel, sewing, and fashion. These courses typically include wardrobe planning; selection, care, and repair of various materials; and construction of one or more garments. They may also include related topics, such as fashion design, fashion history, the social and psychological aspects of clothing, careers in the clothing industry, and craft sewing.

Life Skills	72206	22206
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Life Skills courses provide students with information about a wide range of subjects to assist them in becoming wise consumers and productive adults. These courses often emphasize such topics as goal-setting, decision-making, and setting priorities; money and time management; relationships; and the development of the self. Practical exercises regarding selecting and furnishing houses, meeting transportation needs, preparing food, selecting clothing, and building a wardrobe are often integral to these classes. In addition, specific topics such as insurance, taxation, and consumer protection may also be covered.

Self Management	72207	22207
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Self-Management courses introduce students to the skills and strategies helpful in becoming more focused, productive individuals. These courses typically emphasize goal-setting; decision-making; managing time, energy, and stress; and identifying alternatives and coping strategies. They may also allow students to explore various career and lifestyle choices.

Family Living	72208	22208
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Family Living courses emphasize building and maintaining healthy interpersonal relationships among family members and other members of society. These courses often emphasize (but are not limited to) topics such as social/dating practices, human sexuality and reproduction, marriage preparation, parenthood and the function of the family unit, and the various stages of life. They may also cover topics related to individual self-development, career development, personal awareness, and preparation for the responsibilities of a family member and wage earner.

Personal Development	72209	22209
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Similar to Family Living courses, but more focused on the individual, Personal Development courses emphasize strengthening self-esteem, recognizing and resisting negative peer pressure, and developing coping skills for dealing with changes within one's self and within others. These courses may also have a substance-abuse prevention component.

Course Names/Titles	Non-secondary codes	Secondary codes
Consumer Economics/Personal Finance	72210	22210

Consumer Economics/Personal Finance courses provide students with an understanding of the concepts and principles involved in managing one's personal finances. Topics may include savings and investing, credit, insurance, taxes and social security, spending patterns and budget planning, contracts, and consumer protection. These courses may also provide an overview of the American economy.

Family and Consumer Science—Other	72249	22249
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Exploratory	72250	
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Exploratory courses provide a brief introduction to a variety of topics, typically elective subject areas, often in the form of discrete units or modules. Students may choose to take courses later that allow them to pursue the topics introduced in more depth. Topics may vary widely and span multiple subject areas within one course.

Miscellaneous—Aide	72995	22995
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Miscellaneous—Aide courses offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula or to assist other staff members in fulfilling their duties. Students may provide tutorial or instructional assistance to other students.

Miscellaneous—Other	72999	22999
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Course Names/Titles	Non-secondary codes	Secondary codes
Non-Subject Specific		
Early childhood education	73028	
Pre-kindergarten	73029	
Kindergarten	73030	
Grade 1	73031	
Grade 2	73032	
Grade 3	73033	
Grade 4	73034	
Grade 5	73035	
Grade 6	73036	
Grade 7	73037	
Grade 8	73038	

Descriptions not yet developed for these courses, which are intended to provide a code for non-secondary courses that are not content/subject area dependent.