



**Minnesota Common Course Classification (MCCC) Catalogue
Grades K-12
2020**

Based on the National Center for Education Statistics (NCES) School Codes for Exchange of Data (SCED) Model.

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Introduction

This edition of the Minnesota Common Course Classification (MCCC) Catalogue K-12 contains new and updated course classifications based on revisions to the national model, School Codes for Exchange of Data (SCED), published by the National Center for Education Statistics (NCES). Additional new classifications have been identified as needed by Minnesota schools since implementing the K-12 portion of the MCCC data collections.

This edition will be the current version of the Minnesota Common Course Classification (MCCC) Catalogue K-12 until another new edition is published. We do not publish a new edition every reporting year.

Note:

MCCC classifications are broad umbrellas to group similar courses in school districts across the state. A single classification may be used to classify more than one local course in a school or school district. Classifications serve as a “universal language” to discuss and examine course offerings in Minnesota and compare them to courses offerings in other states.

For more information about how to use these classifications, please consult the booklet, *How to Create a Local Course Index K-12*, which is available for download on the [MCCC public webpage](#).

Subject Area 01: English Language and Literature

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) classifications are written to describe all grades in the K-12 grade-level span, unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete MCCC course descriptions for the most accurate classification.

1. Some local courses combine two or more MCCC course classifications or topics and no MCCC classification exists for that local combination. If one of the topics in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC classification number for that topic. If all topics are of equal focus, use the “Other” course classification at the end of the subject area to classify the local combination and provide a brief description of local course content.
2. **Local International Baccalaureate or Advanced Placement preparation courses should not be classified under the official IB or AP classifications listed in the MCCC.** They should be classified under the MCCC course classification that best describes their content and the course level should be documented as “E” for the enriched or honors.
 - a. Only IB and AP approved curriculum designed for AP and IB can use the AP and IB course classifications.
 - b. *01007 AP Combined English Language/Literature and Composition* was only to be used for combined *01005 AP English Language and Composition* and *01006 AP English Literature and Composition*.
3. Reading course classifications are listed in the English Language and Literature Subject area under **Category B: Literature/Reading**. Exception are for *01991 English Proficiency–Writing* and *01992 English Proficiency–Reading*, which are in **Category F: All Others** and describe courses that assist students in acquiring language proficiency to pass state or local assessments in reading and writing.
4. There are two English Language and Literature classification for English language learners.
 - a. *01009 English as a Second Language–Transition Language Arts* used when the course is taught by a content licensed instructor who has training and experience in integrating content and language instruction while providing scaffolds that make instruction and assessment accessible for students with English learner status.
 - b. Additional ESL course classifications are listed in **23 Academic and Career Development, Category F. English Language Development**. Used when taught by an ESL licensed instructor for courses that are primarily designed to meet the English language development needs of students with English learner status. These courses often address the language demands of specific content areas, but they are language courses, not content courses.
5. All humanities course classifications are listed in **04 Social Sciences and History, Category G. Humanities**. Local courses that are divided into IB Theory of Knowledge I and II are both classified under the one classification, *04304 IB Theory of Knowledge*.
6. Journalism, broadcasting and print publication/production classifications are listed in **11 Communication and Audio/Visual Technology**.

7. Classify film study courses offered as **language arts courses** under *01061 Literature of a Genre*. Classify film study courses offered as **theater courses** as *05061 Film Study*. Classify **visual arts film study courses** using one of these two classifications: *05203 Film Appreciation and Analysis* or *05174 IB Film Study*. These last three course classification choices are in **05 Visual and Performing Arts**.
8. Two course classifications with almost the same title, *01155 Communications*, listed in this subject area, and *11001 Introduction to Communications*, listed in **11 Communication and Audio/Visual Technology**, describe different content:
 - a. *01155 Communications* describes courses that emphasize development of written and oral communication skills, including interpersonal and team-building skills.
 - b. *11001 Introduction to Communications* describes courses that emphasize study and evaluation of media and their roles in, and impact, on society.
9. Media and communication courses, depending on the focus, are listed in several different subject areas. Courses that emphasize:
 - a. Study and evaluation of media and their roles in society, print and broadcast journalism, and printing technology and production, including desktop publishing, are listed in **11 Communication and Audio/Visual Technology**.
 - b. Artistic endeavor, including the history, art and analysis of media arts; creation of media art works; and/or the creation of multi-media art works, are listed in **05 Visual and Performing Arts**.
 - c. Use of technology, such as software programs for webpage design or other graphic design work, including interactive media products and services, are listed in **10 Computer and Information Sciences**.
10. Course classifications for literature and social studies paired courses that offer both language arts and social studies credits (typically scheduled for two class periods) are listed in this subject area. One course is *01055 American Literature/Social Studies Combination*; the other course is *01057 World or British Literature/Social Studies Combination*.
11. Classifications for specific grade-level reading courses are listed in this subject area under **Category B: Literature/Reading**. Also listed in the subject area are non-grade level-specific classifications explained below:
 - a. *01066 Strategic Reading* describes local courses that focus instruction to advance reading skills and comprehension; it is not a remedial reading classification.
 - b. *01067 Assisted Reading* describes local courses that focus on remediation to address individual student reading weaknesses.
 - c. *01068 Corrective Reading* describes local courses that focus on remedial work to improve general comprehension and literacy.
 - d. *01992 English Proficiency Development* describes local courses that are taken in addition to and coordinated with other language arts courses to assist students in attaining desired competency in language arts skills (including reading).
 - e. *01994 Summer Intervention–Language Arts* describes intervention courses that focus on developing language arts skills (including reading) outside of the traditional school year.
12. Most writing classifications are listed under **Category C: Composition/Writing**. MCCC classifications that include writing but are not listed in **Category C**, include:
 - a. *01994 Summer Intervention–Language Arts* which is in **Category F: All Others** describes intervention courses. That focus on developing proficiency to pass state and/or local writing assessments.
 - b. *01991 English Proficiency Development–Writing* which is in **Category F: All Others** describes local courses that focus on developing proficiency to pass state and/or local writing assessments.

13. If no MCCC course classification adequately describes a local course, use the classification “Other” at the end of the subject area and add a brief description of the local course. As a rule, you should be able to classify 95 percent or more of your local courses to define (not “Other”) MCCC classifications.

III. English Language and Literature course categories

Category	Code Range
A. Comprehensive Language Arts	01(001)–01(039)
B. Literature/Reading	01(040)–01(069)
C. Composition/Writing	01(101)–01(150)
D. Speech and Communication	01(151)–01(200)
E. Linguistics	01(201)–01(250)
F. All Others	01(991)–01(999)

A. Comprehensive Language Arts

01001 English/Language Arts I (9th Grade)

Courses in this classification build upon students’ prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language—reading, writing, speaking, and listening. Typically, these courses introduce and define various genres of literature, with writing exercises often linked to reading selections.

01002 English/Language Arts II (10th Grade)

Courses in this classification usually offer a balanced focus on composition and literature. Typically, students write persuasive, critical, and creative multi-paragraph compositions. Students study various literary genres to improve reading rate and comprehension level, develop skills to determine an author’s intent and theme, and recognize the techniques used by an author to deliver his or her message.

01003 English/Language Arts III (11th Grade)

Courses in this classification continue to develop students’ writing skills by emphasizing clear, logical writing patterns, word choice and usage in essays and research papers. Students continue to read works of literature, which are often the basis for the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses.

01004 English/Language Arts IV (12th Grade)

Courses in this classification blend composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature while continuing to develop their language arts skills. Typically, students write multi-paragraph essays, but they may also write one or more major research papers.

01005 AP English Language and Composition

Courses in this classification follow the College Board’s suggested curriculum designed to parallel college-level English courses and expose students to prose written in a variety of periods, disciplines and rhetorical contexts. They emphasize the interaction of the author’s purpose, intended audience and content. Students write on a variety of subjects for various purposes.

01006 AP English Literature and Composition

Courses in this classification follow the College Board’s suggested curriculum designed to parallel college-level English courses and enable students to develop critical standards for evaluating literature. Students study the language, character, action and theme in works of recognized literary merit to enrich their understanding of connotation, metaphor, irony, syntax and tone. They write compositions, including literary analysis, exposition, argument, narrative and creative writing.

01007 AP Combined English Language/Literature and Composition

Courses in this classification follow the College Board’s suggested curriculum designed to parallel college-level English courses for AP English Language and Composition and AP Literature and Composition as listed above.

01008 IB Language A: Literature (English)

Courses in this classification prepare students to take the International Baccalaureate Language A: Literature exams. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses and critiques of this literature, and other oral and written assignments. The course is designed for students highly competent in using English in an academic context.

01009 English as a Second Language (ESL)–Transition Language Arts

Courses are designed for English Language Learners and typically blend speaking, listening, reading and writing and provide a transition from ESL to mainstream high school language arts/English courses. These courses may include preparation for state assessments in reading and writing. They are taught by an English teacher and an ESL teacher or one teacher with dual certification in English and ESL.

01010 Language Arts Laboratory

Courses in this classification may integrate reading, writing, speaking and listening or emphasize reading or writing. Focus is on the individual student progress. Content varies according to each individual student’s needs and abilities, but developing writing skills, improving reading skills, building vocabulary, improving grammar and listening skills are typically included.

01011 English/Language Arts Comprehensive–Multi-Grade Level

Courses in this classification are not grade-level differentiated. They typically offer a balanced study of composition and literature, including speaking and listening skill development for multi-grade levels.

01012 IB Language A: Language and Literature (English)

Courses in this classification prepare students to take the International Baccalaureate Language A: Language and Literature exams. Course content includes in-depth study of composition for purpose and audience, forms of mass communication and the media, and the context and elements of literature. The course includes oral and written assignments and is designed for students highly competent in using English in an academic context.

01013 IB Literature and Performance

Courses in this classification prepare students to take the International Baccalaureate Literature and Performance exam. Course content focuses on the relationship between literature and theatre. These courses may cover the critical study of literary texts, the exploration of chosen approaches to a text, and the performance of written texts.

01027 IB Language A (English), Middle Years Program

Courses in this classification include instruction in the instrumental function of a language, emphasizing skills in listening, viewing, speaking, reading, presenting, and writing, as well as literature encompassing a variety of periods and genres.

01028 Language Arts–Kindergarten

Courses in this classification engage students in activities to develop their language skills, including reading, writing, listening and speaking. Course content may emphasize storytelling or reading aloud and evoking a written, oral or pictorial response. Specific content depends on state standards for kindergarten.

01029 Language Arts–Grade 1

Courses in this classification include the four aspects of language—reading, writing, speaking and listening. They 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 on state standards for grade one.

01030 Language Arts–Grade 2

Courses in this classification include the four aspects of language—reading, writing, speaking and listening. They may build students' skills in independent reading and writing by increasing reading and writing fluency, vocabulary, and recognition of word and language patterns. They may also introduce or reinforce rules of grammar. Specific content depends on state standards for grade two.

01031 Language Arts–Grade 3

Courses in this classification include the four aspects of language—reading, writing, speaking and listening. They may emphasize independent reading and writing in a variety of learning activities. Some emphasis may also be placed on oral communication skills. Specific content depends on state standards for grade three.

01032 Language Arts–Grade 4

Courses in this classification include the four aspects of language—reading, writing, speaking and listening. They may emphasize independent reading and writing in a variety of learning activities that require students to respond to different material in different ways. Grammar and usage may also be emphasized. Specific content depends on state standards for grade four.

01033 Language Arts–Grade 5

Courses in this classification include the four aspects of language—reading, writing, speaking and listening. They extend students’ skills in writing for particular purposes or audiences, distinguishing meaning and literary functions in texts, and fluency in reading. Specific content depends on state standards for grade five.

01034 Language Arts–Grade 6

Courses in this classification build on students’ prior knowledge of grammar, vocabulary, word usage, and mechanics of writing and include the four aspects of language—reading, writing, speaking and listening. They may emphasize the use of language for different effects, in different contexts and for different purposes. Specific content depends on state standards for grade six.

01035 Language Arts–Grade 7

Courses in this classification build on students’ prior knowledge of grammar, vocabulary, word usage, and mechanics of writing and include the four aspects of language—reading, writing, speaking and listening. They may emphasize different uses for language, including constructing meaning and making connections in written texts. Specific content depends on state standards for grade seven.

01036 Language Arts–Grade 8

Courses in this classification build on students’ prior knowledge of grammar, vocabulary, usage, and mechanics of writing and include the four aspects of language—reading, writing, speaking and listening. Typically, these courses use various genres of literature to improve reading skills, and they link writing exercises for different purposes to those reading selections. Specific content depends on state standards for grade eight.

01037 Language Arts–Multi-Grade Levels

Courses in this classification are not grade-level differentiated. They maintain the same focus on the four aspects of language—reading, writing, speaking and listening—using a variety of language arts learning activities for different effects, in different contexts and for different purposes. Specific content is based on the state standards for grade levels included.

B. Literature/Reading

01040 Reading–Kindergarten

Courses in this classification engage students in activities to develop their reading skills. They may emphasize storytelling or reading aloud and evoking a written, oral or pictorial response. Specific content depends upon state standards for kindergarten.

01041 Reading–Grade 1

Courses in this classification focus on reading skills and may emphasize recognition of and response to various types of text, extension of vocabulary, and the connection of language to the expression of ideas. Specific content depends on state standards for grade one.

01042 Reading–Grade 2

Courses in this classification focus on reading skills and may build students' skills in independent reading by increasing reading fluency, vocabulary, and recognition of word and language patterns. Specific content depends on state standards for grade two.

01043 Reading–Grade 3

Courses in this classification focus on reading skills and may emphasize independent reading in a variety of assignments. Some emphasis may also be placed on presentation skills. Specific content depends on state standards for grade three.

01044 Reading–Grade 4

Courses in this classification focus on reading skills and may emphasize independent reading in a variety of assignments and require students to respond to different material in different ways. Specific content depends on state standards for grade four.

01045 Reading–Grade 5

Courses in this classification focus on reading skills and may extend students' skills in distinguishing meaning and literary functions in texts as well as fluency in reading. Specific content depends on state standards for grade five.

01046 Reading–Grade 6

Courses in this classification build upon students' prior knowledge and skill in reading and may emphasize the use of language for different effects, in different contexts and for different purposes. Specific content depends on state standards for grade six.

01047 Reading–Grade 7

Courses in this classification build upon students' prior knowledge and skill in reading and may emphasize the use of language for different effects, in different contexts and for different purposes. Specific content depends on state standards for grade seven.

01048 Reading–Grade 8

Courses in this classification build upon students' prior knowledge and skill in reading. Typically, these courses use various genres of literature to improve reading skills and link comprehension exercises for different purposes to those reading selections. Specific content depends on state standards for grade eight.

01049 Reading–Multi-Grade Levels

Courses in this classification are not grade-level differentiated. They maintain a focus on reading. Specific content is based on the state standards for grade levels included in the course.

01051 English/Literature (freshmen and sophomores)

Courses in this classification are designed for freshmen and/or sophomores and typically introduce two or more genres of literature (novel, short story and poetry). Exploration of each genre's literary elements, determination of theme and intent, and examination of vocabulary and semantics are often included. Writing assignments are often based on or related to the literature studied.

01052 English/Literature (juniors and seniors)

Courses in this classification are designed for juniors and/or seniors and emphasize reading comprehension and critical-thinking skills. They explore advanced literary techniques, such as irony, satire, humor, connotation, tone, rhythm and symbolism with the aim of creating sophisticated readers. Writing assignments are required as an additional method to improve critical-thinking and analytic skills.

01053 Literature

Courses in this classification offer students the opportunity to examine the themes presented in a body of literature. Critical thinking skills are developed as students determine the assumptions underlying a reading selection and as they determine how the work reflects the times and culture. Oral discussion and written compositions are an integral part of literature courses. Courses may address a particular genre or a theme, or survey works of a particular time or people.

01054 American Literature

Courses in this classification focus upon commonly known American authors and their work. Students improve their critical-thinking skills as they determine the assumptions underlying selected works and understand a work of literature reflects the society and the time. Oral discussion and written compositions are an integral part of literature courses.

01055 American Literature/Social Studies Combination

Courses in this classification typically integrate the study of American literature with an overview of U.S. history and may include aspects of geography, civics, government and economics. These courses may also include aspects of culture such as music and art. A two-period per day course may be required to achieve the same objectives as separate courses in social studies and literature.

01056 British Literature

Courses in this classification may survey British literature or may focus on a selected timeframe of England's history. Students improve their critical-thinking skills as they determine the assumptions underlying selected works and understand how the literature reflects the society and the time. Oral discussion and written compositions are an integral part of literature courses.

01057 World or British Literature/Social Studies Combination

Courses in this classification integrate the study of World or British literature with an overview of World or English history and may include aspects of geography, civics, government and economics. These courses may also include aspects of culture such as music and art. A two-period per day class may be required to achieve the same objectives as separate social studies and literature courses.

01058 World Literature

Courses in this classification use representative literature selections from ancient and/or modern times from countries around the world. Students improve their critical-thinking skills through examination of diverse literary traditions and the influences of those traditions. Oral discussion and written compositions are part of these courses.

01059 Biblical Literature

Courses in this classification have the same goals as general literature courses—the improvement of students' language arts and critical-thinking skills. Students may compare techniques, styles and themes of the various books of the Bible; examine the Bible's influence on secular literature; and study historical events of biblical times. Oral discussion and written compositions are part of these courses.

01060 Literature of an Author

Courses in this classification have the same goals as general literature courses—the improvement of students' language arts and critical-thinking skills. Students determine the assumptions underlying selected works of a particular author by comparing techniques, styles, and themes among different works and reflecting upon the time in which the author lived. Oral discussion and written compositions are part of these courses.

01061 Literature of a Genre

Courses in this classification have the same goals as general literature courses—the improvement of students’ language arts and critical-thinking skills. They focus on one or several genres such as poetry, essay, biography, short story, drama and so on. Students determine the assumptions underlying selected works and examine the structure, techniques and intentions of the genre. Oral discussion and written compositions are part of these courses. This classification includes film study courses.

01062 Literature of a Period

Courses in this classification have the same goals as general literature courses—the improvement of students’ language arts and critical-thinking skills. They focus on the literature written during or about a particular time, such as the French Revolution or the 1960s. Students determine the assumptions underlying selected works, reflect upon the influence of events and attitudes, and compare the points of view of various writers. Oral discussion and written compositions are part of these courses.

01063 Literature of a Place

Courses in this classification have the same goals as general literature courses—the improvement of students’ language arts and critical-thinking skills. They focus on a particular geographic region. Students determine the assumptions underlying selected works and study how the literature reflects the land, society and history of the region. Oral discussion and written compositions are part of these courses.

01064 Literature of a People

Courses in this classification have the same goals as general literature courses—the improvement of students’ language arts and critical-thinking skills. They focus on literature written by or about people who share a particular characteristic such as religion, culture or gender. Students determine the assumptions underlying selected works, reflect upon the influence of a common characteristic, and compare the points of view. Oral discussion and written compositions are part of these courses.

01065 Literature of a Theme

Courses in this classification have the same goals as general literature courses—the improvement of students’ language arts and critical-thinking skills. They focus on a particular theme, such as The American Dream, Society and Self, Exploration, or War and Peace as expressed from several points of view.

01066 Strategic Reading

Courses in this classification advance students’ critical-thinking and analysis skills, reading rate and comprehension level, and vocabulary most often in preparation for college reading requirements. These courses may emphasize works of fiction, nonfiction and/or textbooks. They often include advanced strategies for note taking and/or understanding and evaluating important points of a text.

01067 Assisted Reading

Courses in this classification focus on developing individual student reading skills and remediation is targeted to each student's particular weakness(s). Courses are typically designed to improve each student's reading comprehension and rate and/or to develop strategies to read more efficiently.

01068 Corrective Reading

Courses in this classification offer diagnostic and remedial activities designed to correct reading difficulties that interfere with students' progress in developing reading skills and understandings. Activities improve reading comprehension, reading technique and general literacy skills. They may include time management, note taking and strategies for determining main ideas and supporting details in a text.

01069 Postsecondary Developmental Reading

Courses in this classification include remediation in reading concepts and skills assessed in postsecondary reading placement tests and enable students to satisfy postsecondary enrollment readiness requirements. Courses are typically offered at the postsecondary institution, but students most often receive high school reading/language art or elective credit not college credit.

C. Composition/Writing

01101 English/Composition (freshmen and sophomores)

Courses in this classification are designed for freshmen and/or sophomores. They address the writing processes and practices necessary for producing successful compositions. Students typically write persuasive, critical, and creative multi-paragraph essays and compositions. The study of literature to expose students to exemplary illustrations of various forms of writing may be included.

01102 English/Composition (juniors and seniors)

Courses in this classification are designed for juniors and/or seniors. They reinforce the logic and critical-thinking skills that accompany good writing, while emphasizing word choice, usage and writing mechanics. Courses provide continued and advanced instruction in writing for a variety of purposes and audiences, but may focus on college or business preparation. Literature study in which students analyze examples of several genres may be included.

01103 Composition

Courses in this classification focus on developing students' abilities to compose different types of writing for a range of purposes and audiences. They 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. The focus usually remains on nonfiction or scholarly writing; however, creative writing may be included.

01104 Creative Writing

Courses in this classification develop a student's writing technique and style in poetry, short story, drama, essays and other forms of prose. The emphasis of these courses is on writing; however, students may study exemplary texts to obtain a fuller appreciation of the form and craft. Some creative writing classes cover several forms; others concentrate on one particular form.

01105 Research/Technical Writing

Courses in this classification prepare students to write research papers and/or technical reports. They emphasize research of both primary and secondary sources; organization of material, thoughts, and arguments; and writing in a persuasive or technical style.

01106 Postsecondary Development Writing

Courses in this classification include remediation in writing concepts and skills assessed in postsecondary writing placement tests and enable students to satisfy postsecondary enrollment readiness requirements. Courses are typically offered at the postsecondary institution, but students most often receive high school writing/language arts or elective credit, not college credit.

01130 Writing–Kindergarten

Courses in this classification engage students in activities to develop their writing skills. Content may emphasize storytelling or personal expression. Specific content depends upon state standards for kindergarten.

01131 Writing–Grade 1

Courses in this classification focus on developing writing skills and may emphasize recognition and creation of various types of text, extension of vocabulary and the connection of language to the expression of ideas. Specific content depends upon state standards for grade one.

01132 Writing–Grade 2

Courses in this classification focus on developing writing skills and may build students' skills in independent writing by increase writing fluency, vocabulary and recognition of word and language patterns. They may also introduce or reinforce grammar and spelling rules. Specific content depends upon state standards for grade two.

01133 Writing–Grade 3

Courses in this classification focus on developing writing skills and may emphasize independent writing in a variety of contexts. Some emphasis may also be placed on presentation skills. Specific content depends upon state standards for grade three.

01134 Writing–Grade 4

Courses in this classification focus on developing writing skills and may emphasize independent writing in a variety of contexts that require students to respond to different material in different ways. Grammar and usage may be included. Specific content depends upon state standards for grade four.

01135 Writing–Grade 5

Courses in this classification focus on developing writing skills and may extend students' skills in writing for particular purposes or audiences, distinguishing meaning and literary functions in texts and fluency in writing. Specific content depends upon state standards for grade five.

01136 Writing–Grade 6

Courses in this classification build upon students' prior knowledge and skill in writing and may emphasize the use of language for different effects, in different contexts and for different purposes. Specific content depends upon state standards for grade six.

01137 Writing–Grade 7

Courses in this classification build upon students' prior knowledge and skill in writing and may emphasize the use of language for different effects and for constructing meaning and making connections. Specific content depends upon state standards for grade seven.

01138 Writing–Grade 8

Courses in this classification build upon students' prior knowledge and skill in writing. Typically, they use writing activities to expand students' understanding of the different purposes of written communication. Specific content depends upon state standards for grade eight.

01139 Writing–Multi-Grade Levels

Courses in this classification are not grade-level differentiated. They maintain a focus on writing and content is age-appropriate. Specific content depends upon the state standards for grade levels included.

D. Speech and Communication

01151 Public Speaking

Courses in this classification develop students' communication skills in a variety of speaking situations such as small and large group discussions or delivery of speeches in front of audiences. 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.

01152 Forensic Speech–Inclusive

Courses in this classification develop students' oral skills. They typically focus on logic and reasoning, the organization of thought and supporting materials, and effective presentation of voice and body. Courses are often linked to an extracurricular program, and students learn the methods, aims, and styles of a variety of events such as debate, expository speaking, radio broadcast, oral interpretation and dramatic interpretation.

01153 Forensic Speech–Debate

Courses in this classification develop students' oral skills. They typically focus on logic and reasoning, research and analysis, organization of thought and supporting materials, argumentative style and skill, and effective presentation of voice and body. Courses are often linked to an extracurricular debate program and introduce students to the methods, aims, and styles used in various kinds of debates such as formal or Lincoln-Douglas.

01154 Forensic Speech–Individual Event

Courses in this classification develop students' oral skills. Topics depend upon the event(s) taught, but usually emphasize effective presentation of voice and body, thoughtful interpretation of literature, logic and reasoning, and the organization of thought and supporting materials. Courses are often linked to an extracurricular program and introduce one or several individual event categories such as exposition, oral interpretation, dramatic interpretation, and radio broadcast.

01155 Communications

Courses in this classification focus on the application of oral and written communication skills through a variety of formal and informal experiences. They emphasize developing effective interpersonal skills and may include team-building components. How interpersonal communications are affected by stereotypes, nonverbal cues, vocabulary and stylistic choices may be included.

01156 Applied Language Arts/Communications

Courses in this classification develop language arts skills—reading, writing, listening and speaking while—concentrating on the practical application of communication. They use technical reports and manuals, business letters, resumes and applications as examples rather than emphasize language arts skills as applied to literary materials.

E. Linguistics

01201 English Morphology and Grammar

Courses in this classification involve the study of the English language, including its roots and derivations, structure and sentence patterns, dialects, writing and spelling systems, and uses as a communication tool.

01202 History of the English Language

Courses in this classification trace the development of English, concentrating on historical and cultural influences while examining how the language has changed over time. Although language roots, structures, and dialects may be examined, the emphasis remains on the process of language development rather than on morphology.

01203 English–Test Preparation

Courses in this classification provide activities in analytical thinking, including 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 stress. Materials may include ACT, SAT and PSAT review materials, current assessment software programs and previous standardized examinations.

01204 Spelling/Vocabulary

Courses in this classification focus on developing students' vocabulary, word usage and spelling skills. Specific content depends upon state standards.

01205 English Grammar

Courses in this classification focus on the structure of the formal standard American English language, involving sentence structure; parts of speech; the function of words, phrases, and clauses; and proper punctuation.

F. All Others

01991 English Proficiency–Writing

Courses in this classification are designed to assist students in acquiring the skills necessary to pass state writing proficiency tests.

01992 English Proficiency–Reading

Courses in this classification are designed to assist students in acquiring the skills necessary to pass state reading and/or writing proficiency tests.

01993 Seminar/Project–English Language and Literature

Courses in this classification vary widely, but typically allow students to investigate areas of interest in English Language or Literature and may include college and/or career exploration and planning. Students often design a project based on an area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

01994 English Proficiency Development–Comprehensive Language Arts

Courses in this classification are designed to assist students in acquiring the skills necessary to pass local and/or state proficiency examinations in language arts, including both reading and writing. Specific content depends upon state standards.

01995 English Language and Literature–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

01996 Credit Recovery–English/Language Arts

Courses in this classification are designed to enable students to recover credits required for graduation in the English/language arts curriculum area.

01997 English Language and Literature–Independent Study

Courses in this classification are often conducted with instructors as mentors and enable students to explore particular topics within the field of language arts. These courses may serve as an opportunity for students to expand their expertise, explore a topic in detail, or develop advanced skills.

01999 English Language and Literature–Other

(Provide local course description.)

Subject Area 02: Mathematics

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) classifications describe all K-12 grade levels unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete classification descriptions for most accurate classification.

1. Please also remember a single MCCC classification may be used multiple times for different local courses.
2. Some local courses combine two MCCC course classifications or topics and no MCCC classification exists for that combination. If there is a Particular Topics classification in the category, use that to classify the local course. If no Particular Topics classification exists in the category and one of the topics in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that topic. If all topics in the local course are of equal focus, use the “Other” classification at the end of the subject area to classify the local combination and add a description of local course content.
3. **Local IB or AP preparation courses should not be classified under the official IB or AP classifications listed in the MCCC.** They should be classified under the MCCC course classification that best describes the content and the course level should be documented as “E” for enriched or honors. Only IB and AP approved curriculum designed for AP and IB can use the AP and IB course classifications.
4. There are two different course classifications that focus on improving students’ math skills and test scores:
 - a. *02954 Mathematics Proficiency Development* focuses on assisting students in acquiring math skills to pass state or local proficiency assessments.
 - b. *02953 Mathematics–Test Preparation* is preparation for national standardized tests such as PSAT, SAT and ACT.
5. Computer and technology courses are listed in **10 Computer and Information Sciences** with the exception of *02156 Computer Math with Algebra*. The focus of 02156 is on computer systems, programming and using the computer to solve math problems.
6. There are two math courses for English language learners in this subject area:
 - a. *02955 English as a Second Language–Transition Mathematics* used when the course is taught by a content licensed instructor who has training and experience in integrating content and language instruction while providing scaffolds that make instruction and assessment accessible for students with English learner status.
 - b. *02956 Bilingual Mathematics* for courses taught in more than one language by instructors who are proficient in the languages of instruction and licensed in the content area
 - c. Additional ESL math course classifications are listed in **23 Academic and Career Development, Category F. English Language Development**. Used when taught by an ESL licensed instructor for courses that are primarily designed to meet the English language development needs of students with English learner status. These courses often address the language demands of specific content areas, but they are language courses, not content courses.

III. Mathematics course categories

Category

K-8 MN Standards Classifications

9-12 MN Standards Classifications

Beyond MN Standards Classifications

Classifications that are not sufficient for MN 9-12 Standards

A. K-8 MN Standards Classifications

Note: All courses in **Category A: K-8 MN Standards Classification** used for grades 9-12 must be documented as course level “B” for Basic/Remedial.

02001 Informal Mathematics

Courses in this classification emphasize the teaching of mathematics as problem-solving and communication. They highlight connections among mathematical topics and between mathematics and other disciplines and approach the teaching of general math, pre-algebra and pre-geometry by applying numbers and algebraic and geometric concepts and relationships to real problems.

02002 General Math

Courses in this classification 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; sets and logic; ratio and proportion; estimation; formulas; and solving and graphing simple equations and inequalities.

02003 Particular Topics in Foundation Math

Courses in this classification examine particular topics in foundation math rather than provide a general overview.

02005 Pre-Algebra

Courses in this classification 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.

02006 Algebra I

Courses in this classification seek to improve students' algebra understanding. Topics include using linear functions to represent real world and mathematical situations; graphical, tabular, verbal and symbolic representations of linear functions; arithmetic and geometric sequences; generating and evaluating algebraic expressions; solving equations and inequalities; linear systems; Pythagorean Theorem; parallel and perpendicular line relationships; and lines of best fit. Courses reported in this classification must be documented as "B" for basic/remedial for students in grades 9-12 and do not meet Algebra II requirements for high school graduation.

02030 Mathematics–Kindergarten

Courses in this classification 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.

02031 Mathematics–Grade 1

Courses in this classification 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 one.

02032 Mathematics–Grade 2

Courses in this classification typically continue to build a conceptual foundation in number, operation and quantitative reasoning; patterns, relationships and algebraic thinking; geometry and spatial reasoning; and measurement. They 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 two.

02033 Mathematics–Grade 3

Courses in this classification typically emphasize number, operation and quantitative reasoning; patterns, relationships and algebraic thinking; geometry and spatial reasoning; and measurement. They 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 three.

02034 Mathematics–Grade 4

Courses in this classification typically emphasize number, operation and quantitative reasoning; patterns, relationships and algebraic thinking; geometry and spatial reasoning; and measurement. Course content may include activities that help students increase operational fluency, make connections between abstract symbols and concrete events or concepts, or present conclusions based on data. Specific content depends upon state standards for grade four.

02035 Mathematics–Grade 5

Courses in this classification typically emphasize number, operation and quantitative reasoning; patterns, relationships and algebraic thinking; geometry and spatial reasoning; and measurement. Course content may include activities that help students increase operational fluency, make connections between abstract symbols and concrete events or concepts, or present their mathematical reasoning. Specific content depends upon state standards for grade five.

02036 Mathematics–Grade 6

Courses in this classification typically emphasize skills in numerical operations (including basic operations and their proper order), measurement, patterns, simple functions, geometry and concepts of data analysis, including statistics and probability. Specific content depends upon state standards for grade six.

02037 Mathematics–Grade 7

Courses in this classification 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 seven.

02038 Mathematics–Grade 8

Courses in this classification typically emphasize proficiency in skills involving numbers and operations, measurement, patterns, simple functions, algebra, geometry, statistics and probability. Specific content depends upon state standards for grade eight.

02039 Comprehensive Mathematics Multi-Grade Level

Courses in this classification are not grade-differentiated. They focus on reinforcing and extending students' math understandings. Specific content depends upon state standards for the grade levels included.

02040 IB Mathematics, Middle Years Program

Courses in this classification are built on a framework of five branches of mathematics: number, algebra, geometry and trigonometry, statistics and probability, and discrete mathematics. The program encourages students to develop an understanding of mathematical reasoning and processes, the ability to apply mathematics and evaluate the significance of results, the ability to develop strategies for problems in which solutions are not obvious, and the acquisition of mathematical intuition. Use this classification only in official IB sites.

B. 9-12 MN Standards Classifications

02055 Transition Algebra

Courses in this classification review and extend algebra and geometry concepts for students who have already taken Algebra I and Geometry, including a review of such topics as operations of real numbers; evaluation of rational algebraic expressions; solutions of first degree equations and inequalities; factoring of polynomials; properties of figures; rules of congruence; coordinate geometry including lines, segments and circles in the coordinate plane; and angle measurement in triangles, including trigonometric ratios.

02062 Integrated Mathematics I (9th grade)

Courses in this classification emphasize the teaching of mathematics as problem-solving, communication and reasoning. They 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. First course in the series of Integrated Mathematics.

02063 Integrated Mathematics II (10th Grade)

Courses in this classification emphasize the teaching of mathematics as problem-solving, communication and reasoning. They 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. Second course in the series of Integrated Mathematics.

02064 Integrated Mathematics III (11th Grade)

Courses in this classification emphasize the teaching of mathematics as problem-solving, communication and reasoning. They 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. Third course in the series of Integrated Mathematics.

02065 Integrated Mathematics IV (12th Grade)

Courses in this classification emphasize the teaching of mathematics as problem-solving, communication and reasoning. They 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. Fourth course in the series of Integrated Mathematics.

02072 Geometry

Courses in this classification emphasize an abstract, formal approach to the study of geometry and 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.

02102 Discrete Mathematics

Courses in this classification focus on the study of topics such as number theory, discrete probability, set theory, symbolic logic, Boolean algebra, combinatorics, recursion, basic algebraic structures, and graph theory.

02103 Trigonometry

Courses in this classification prepare students for eventual work in calculus and typically include the following topics: trigonometric and circular functions; their inverses and graphs; relations among the parts of a triangle; trigonometric identities and equations; solutions of right and oblique triangles; and complex numbers.

02104 Math Analysis

Courses in this classification focus on the study of polynomial, logarithmic, exponential, and rational functions and their graphs; vectors; set theory; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity. They may also include some study of trigonometry and/or pre-calculus topics.

02105 Trigonometry/Math Analysis

Courses in this classification cover topics of both Trigonometry and Math Analysis and prepare students for eventual work in calculus. Topics typically include the study of right trigonometric and circular functions, inverses, and graphs; trigonometric identities and equations; solutions of right and oblique triangles; complex numbers; numerical tables; polynomial, logarithmic, exponential, and rational functions and their graphs; vectors; set theory; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.

02106 Trigonometry/Algebra

Courses in this classification combine trigonometry and advanced algebra topics, and are usually intended for students who have attained Algebra I and Geometry objectives. Topics typically include right trigonometric and circular functions, inverses, and graphs; trigonometric identities and equations; solutions of right and oblique triangles; complex numbers; numerical tables; field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; and properties of higher degree equations.

02107 Trigonometry/Analytic Geometry

Courses in this classification cover topics of both Trigonometry and Analytic Geometry and prepare students for eventual work in calculus. Topics typically include the study of right trigonometric and circular functions, inverses, and graphs; trigonometric identities and equations; solutions of right and oblique triangles; complex numbers; numerical tables; vectors; the polar coordinate system; equations and graphs of conic sections; rotations and transformations; and parametric equations.

02108 Math Analysis/Analytic Geometry

Courses in this classification cover topics from both Math Analysis and Analytic Geometry and prepare students for eventual work in calculus. Topics include the study of polynomial, logarithmic, exponential, and rational functions and their graphs; vectors; set theory; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity; the polar coordinate system; equations and graphs of conic sections; rotations and transformations; and parametric equations.

02109 Elementary Functions

Courses in this classification, while preparing students for eventual work in calculus, include the study of relations and functions, including polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their inverses, graphs, and applications.

02131 IB Mathematical Studies

Courses in this classification prepare students to take the International Baccalaureate Mathematical Studies exam. Intended to provide students with the skills to cope with the mathematical demands of a technological society, course topics include linear, quadratic, and exponential functions, solutions, and graphs; descriptive statistics; statistical applications; data analysis, including collection, calculation, and presentation of data; set operations, logic, and probability; geometry and trigonometry; mathematical models; and introduction to differential calculus.

02132 IB Mathematics

Courses in this classification prepare students to take the International Baccalaureate Mathematics exams. Topics include operations and properties of number sets; trigonometric functions, equations, and graphs; algebra and coordinate geometry; simultaneous linear equations; polynomial and quadratic functions and equations; calculus, including bilinear, exponential and logarithmic functions; two dimensional vectors; and statistics and probability. Advanced content may include discrete mathematics; sets, relations, and groups; or additional calculus topics.

02138 College Mathematics Preparation

Courses in the classification solidify quantitative literacy through the use and extension of algebraic, geometric, and statistical concepts. These courses prepare students for postsecondary liberal studies mathematics coursework; they are not intended to serve as remedial mathematics courses. Course content typically includes algebraic operations, solutions of equations and inequalities, number sets, coordinate geometry, functions and graphs, probability and statistics, and data representation.

2139 IB Mathematics: Applications and Interpretation

Courses in this classification prepare students to take the International Baccalaureate Mathematics: Applications and Interpretation exams. Intended to provide students with an understanding of the role of mathematics in an increasing technological world, these courses focus on mathematical concepts used as applications and in mathematical modeling. Course topics include numbers and algebra, functions, geometry and trigonometry, statistics and probability, and calculus.

2140 IB Mathematics: Analysis and Approaches

Courses in this classification prepare students to take the International Baccalaureate Mathematics: Analysis and Approaches exams. These courses prepare students to use analytical concepts within mathematics to solve abstract problems in a variety of contexts. These concepts are applied to course topics such as numbers and algebra, functions, geometry and trigonometry, statistics and probability, and calculus.

02142 Algebra II

Courses in this classification seek to enhance students' algebra understanding. Topics include functions; using functions to represent real-world and mathematical situations; graphical, tabular, verbal, and symbolic representations of functions including quadratic, exponential, square root, absolute value functions and translations of these functions; linear equations, quadratic equations, and exponential equations; positive and negative rational exponents; systems of linear inequalities; generating and evaluating algebraic expressions including polynomials, radical expressions, and algebraic fractions; field properties; and solving equations, inequalities and linear programming.

02143 Algebra II/Probability and Statistics

Courses in this classification typically focus on the algebra content listed in the classification 02142 Algebra II above and incorporate the study of likely events and the analysis, interpretation, and presentation of quantitative data. Courses also include basic probability and statistics: discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency, and presentation of data (including graphs) as well as normal distribution and measures of variability.

02201 Probability and Statistics

Use for local courses that meet data analysis and probability math standard requirements. Courses in this classification introduce the study of likely events and the analysis, interpretation and presentation of quantitative data. Course topics include basic probability and statistics: discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency and presentation of data (including graphs). Course topics also include normal distribution and measures of variability.

02202 Inferential Probability and Statistics

Courses in this classification focus on descriptive statistics, with an introduction to inferential statistics. Topics typically include event probability, normal probability distribution, collection and description of data, frequency tables and graphs, measures of central tendency and variability, random variables and random sampling. Course topics may also include covariance and correlation, central limit theorem, confidence intervals and hypothesis testing.

02203 AP Statistics

Courses in this classification follow the College Board's suggested curriculum and are designed to parallel college-level statistics. They introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns and statistical inference.

02205 Statistics

Courses in the classification involve the major concepts and methods used to collect, analyze, and draw conclusions from data. Topics typically include populations and samples, measures of central tendency and variability, hypothesis testing, presentation, and making statistical inferences.

02955 English as a Second Language (ESL)–Transition Mathematics

Courses are designed for English Language Learners and typically expand students' math knowledge and skills and may include preparation for state math assessments. They may include a general overview of mathematical thinking and skills or focus on particular topics. These courses often provide a transition from ESL to mainstream high school mathematics courses and are taught by a math teacher and an ESL teacher or one teacher with dual certification in mathematics and ESL.

02956 Bilingual Mathematics

Courses are taught in the student's native language, expanding the math knowledge and skills of English Language Learners and often prepare them for state math assessments. These courses may include a general overview of mathematical thinking and skills, focus on particular topics, such as algebra, geometry, trigonometry, calculus, statistics and probability, or address these topics using an integrated approach.

C. Beyond MN Standards Classifications

02110 Pre-Calculus

Courses in this classification combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.

02111 Linear Algebra

Courses in this classification include a study of matrices, vectors, tensors, and linear transformations and are typically intended for students who have attained pre-calculus objectives.

02112 Linear Programming

Courses in this classification typically focus on the study of mathematical modeling and the simplex method to solve linear inequalities and are typically intended for students who have attained pre-calculus objectives.

02113 Abstract Algebra

Courses in this classification typically focus on the study of the properties of the number system from an abstract perspective, including such topics as number fields (i.e., rational, real, and complex numbers), integral domains, rings, groups, polynomials, and the fundamental theorem of algebra. Abstract Algebra is typically geared towards students who have attained pre-calculus objectives.

02121 Calculus

Courses in this classification focus on the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and math analysis).

02122 Multivariate Calculus

Courses in this classification typically focus on the study of hyperbolic functions, improper integrals, directional derivatives, and multiple integration and its applications.

02123 Differential Calculus

Courses in this classification typically focus on the study of elementary differential equations including first- and higher-order differential equations, partial differential equations, linear equations, systems of linear equations, transformations, series solutions, numerical methods, boundary value problems, and existence theorems.

02124 AP Calculus AB

Courses in this classification follow the College Board's suggested curriculum designed to parallel college-level calculus courses. These courses provide students with an intuitive understanding of the concepts of calculus and experience with its methods and applications. They introduce calculus and include the following topics: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus (including definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of-change problems); and integral calculus (including anti-derivatives and the definite integral).

02125 AP Calculus BC

Courses in this classification follow the College Board's suggested curriculum designed to parallel college-level calculus courses. They provide students with an intuitive understanding of the concepts of calculus and experience with its methods and applications while requiring additional knowledge of the theoretical tools of calculus. They assume a thorough knowledge of elementary functions, and cover all of the calculus topics in AP Calculus AB. They also include the following topics: vector functions, parametric equations, and polar coordinates; rigorous definitions of finite and nonexistent limits; derivatives of vector functions and parametrically defined functions; advanced techniques of integration and advanced applications of the definite integral; and sequences and series.

02126 Particular Topics in Calculus

Courses in this classification examine specific topics in calculus, such as integral calculus, special functions or series, or the applications of calculus to mathematical modeling rather than provide a general overview of calculus.

02134 IB Further Mathematics

Courses in this classification prepare students to take the International Baccalaureate Further Mathematics exam. Designed to advance students' knowledge of IB Mathematics, course topics include linear algebra; geometry; statistics and probability; sets, relations and groups; calculus; and discrete mathematics.

02136 Finite Mathematics

Courses in the classification acquaints students with a variety of non-calculus mathematical topics including linear functions and programming, methods to solve linear and quadratic equations and inequalities, matrices, set theory, counting techniques, and basic concepts of probability and statistics (including measures of central tendency and variation).

02137 Mathematical Modeling

Courses in the classification build upon students' knowledge of algebra and geometry to analyze information using statistical methods and probability, simulate change using mathematical relationships and spatial and geometric modeling, and critically assess and make decisions or solve problems based on quantitative data and logical reasoning.

D. Classification that are not sufficient for MN 9-12 Standards

02004 Postsecondary Developmental Math

Courses in this classification focus on remediation in mathematical concepts and skills assessed in postsecondary math placement tests and enables students to satisfy postsecondary enrollment readiness requirements. Courses are typically offered at the postsecondary institution, but students most often receive either high school math or elective credit; not college credit.

02058 Particular Topics in Algebra

Courses in this classification examine a specific topic in algebra, such as linear equations or rational numbers, rather than provide an overview of algebra concepts.

02071 Informal Geometry

Courses in this classification 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.

02073 Analytic Geometry

Courses in this classification study 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.

02074 Principles of Algebra and Geometry

Courses in this classification 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.

02075 Particular Topics in Geometry

Courses in this classification examine specific topics in geometry, such as solid or technical geometry, rather than provide a general study of the field of geometry.

02101 Number Theory

Courses in this classification review the properties and uses of integers and prime numbers and extend this information to congruencies and divisibility.

02141 Particular Topics in Analytic Mathematics

Courses in this classification examine particular topics in analytic mathematics (such as mathematical proofs and structures or numerical analysis) not described above.

02151 General Applied Math

Courses in this classification reinforce general math skills, extend these skills to include some pre-algebra and algebra topics and use these skills in a variety of practical, consumer, business and occupational applications. Course topics typically include rational numbers, measurement, basic statistics, ratio and proportion, basic geometry, formulas and simple equations.

02152 Occupationally Applied Math

Courses in this classification reinforce general math skills, extend these skills to include some pre-algebra and algebra topics and use these skills primarily in occupational applications. Course topics typically include rational numbers, measurement, basic statistics, ratio and proportion, basic geometry, formulas and simple equations.

02153 Technical Math

Courses in this classification extend students' proficiency in mathematics and often apply these skills to technical and/or industrial situations and problems. These courses may include (but are not limited to) rational numbers, systems of measurements, tolerances, numerical languages, geometry, algebra, statistics, and using tables, graphs, charts and other data displays. Technology is integrated as appropriate.

02155 Business Mathematics with Algebra

Courses in the classification teach and have students apply algebra concepts to a variety of business and financial situations. Applications usually include income, insurance, credit, banking, taxation, stocks and bonds, and finance.

02156 Computer Math with Algebra

Courses in this classification are intended for students who have attained Algebra I objectives and include a study of computer systems, programming and using the computer to solve math problems.

02157 Consumer Math

Courses in this classification reinforce general math topics, such as arithmetic, using rational numbers, measurement, ratio and proportion and basic statistics. Students apply skills to consumer problems and situations such as budgeting, taxation, credit, banking services, insurance, buying and selling products and services, home and/or car ownership and rental, managing personal income and investment.

02951 History of Math

Courses in this classification typically focus on the study of the historical development of numbers, computation, algebra and geometry. Figures critical to the development of mathematics (e.g., Pythagoras, Pascal and Descartes) or important developments (e.g., pi, decimal fractions, probability theory and calculus) often form the backbone of these classes.

02952 Seminar/Project–Mathematics

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in mathematics. They may include college and/or career exploration and planning. Students often design a project based an area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

02953 Mathematics–Test Preparation

Courses in this classification 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 and calculator usage.

02954 Mathematics Proficiency Development

Courses in this classification are designed to assist students in acquiring the skills necessary to pass state or local proficiency examinations.

02995 Credit Recovery–Mathematics

Courses in this classification are designed to enable students to recover credits required for graduation in the mathematics curriculum area.

02996 Mathematics–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing, or delivering course materials. Students may provide tutorial or instructional assistance to other students.

02997 Mathematics–Independent Study

Courses in this classification, often conducted with instructors as mentors, enable students to explore topics of interest related to mathematics. These courses may serve as an opportunity for students to expand their expertise, to explore a topic in detail, or to develop advanced skills.

02999 Mathematics–Other

(Provide local course description.)

Subject Area 03: Life and Physical Sciences

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) classifications are written to describe all grades in the K-12 grade-level span, unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete classification descriptions for most accurate classification.

1. Some local courses combine two or more MCCC course classifications or topics and no MCCC course exists for that local combination. If one of the topics in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that topic. If all topics are of equal focus, use the “Other” course classification at the end of a category to classify the local combination and provide a brief description of local course content.
2. **Local IB or AP preparation courses should not be classified under the official IB or AP classifications listed in the MCCC.** They should be classified under the MCCC course classification that best describes the content and the course level should be documented as “E” for enriched or honors. Only IB and AP approved curriculum designed for AP and IB can use the AP and IB course classifications.
3. The two English as a Second Language (ESL) course classifications in this subject area are:
 - a. *03215 English as a Second Language–Transition Science* used when the course is taught by a content licensed instructor who has training and experience in integrating content and language instruction while providing scaffolds that make instruction and assessment accessible for students with English learner status.
 - b. *03216 Bilingual Science* used for courses taught in more than one language by instructors who are proficient in the languages of instruction and licensed in the content area.
 - c. Additional ESL course classifications are listed in **23 Academic and Career Development, Category F. English Language Development**. Used when taught by an ESL licensed instructor for courses that are primarily designed to meet the English language development needs of students with English learner status. These courses often address the language demands of specific content areas, but they are language courses, not content courses.
4. Taxidermy courses should be classified under *03099 Biology–Other*.
5. Forensic science classifications include *03063 Forensics–Biology Emphasis*, *03108 Forensics–Chemistry Emphasis*, *033162 Forensics–Physics Emphasis* and *03204 Forensics–Integrated Study*.
6. Courses that focus on remediation of students’ science knowledge and skills to improve performance on state science examinations should be classified as *03994 Biology/Life Science–Proficiency Development*.
7. Environmental science courses are most often classified under *03003 Environmental Science* or *03062 Conceptual Biology*.
8. Project Lead the Way
 - a. Engineering courses are listed in **21 Engineering and Technology**.
 - b. Biomedical courses are in listed **14 Health Care Sciences**.
 - c. Computer courses are listed in **10 Computer Information Sciences**.

III. Life and Physical Science course categories

Category	Code Range
A. Earth Science	03(001)–03(050)
B. Biology	03(051)–03(100)
C. Chemistry	03(101)–03(150)
D. Physics	03(151)–03(200)
E. Integrated/Other	03(201)–03(999)

A. Earth Science

03001 Earth Science

Courses in this classification offer insight into the environment on earth and the earth's environment in space. They present the concepts and principles essential to understanding of the dynamics and history of the earth and typically explore oceanography, geology, astronomy, meteorology and geography.

03002 Geology

Courses provide an in-depth study of the forces that formed and continue to affect the earth's surface. Earthquakes, volcanoes and erosion are examples of topics studied.

03003 Environmental Science

Courses in this classification examine the mutual relationships among organisms and their environments. They examine the interrelationships among plants, animals and humans and may include one or more of the following subjects: ecosystems, population and growth studies, ecological concepts, pollution, photosynthesis, recycling and regeneration, and conservation of natural resources.

03004 Astronomy

Courses in this classification examine the solar system, stars, galaxies and interstellar bodies. They introduce and use astronomic instruments and typically explore theories regarding the origin and evolution of the universe, space and time.

03005 Marine Science

Courses in this classification focus on the content and features of the earth's oceans. They explore marine organisms, conditions and ecology and sometimes cover marine mining, farming and exploration.

03006 Meteorology

Courses in this classification examine the earth's atmosphere. Topics usually include atmospheric layering, changing pressures, winds, water vapor, air masses, fronts, temperature changes and weather forecasting.

03007 Physical Geography

Courses in this classification examine the constraints and possibilities the physical environment places on human development. They include discussion of the physical landscape through geomorphology and topography, the patterns and processes of climate and weather and natural resources.

03008 Earth and Space Science

Courses in this classification introduce the study of the earth from a local and global perspective. Students typically learn about time zones, latitude and longitude, atmosphere, weather, climate, matter and energy transfer. Advanced topics often include the use of remote sensing, computer visualization and computer modeling to enable scientists to understand earth as a complex and changing planet.

03009 Energy and the Environment

Courses in this classification expose students to the scientific principles associated with energy transformation, collection, extraction, transmission and storage. Course content may emphasize energy's significance in society and the effects of its use on the environment. Topics may include the distribution, availability, patterns of use and environmental impacts of energy resources.

03010 Earth/Space Science (prior-to-secondary)

Courses in the classification cover basic principles of earth and space science. These may include surface changes, rocks and the rock cycle, weather, water cycle, movements of the earth, moon, and planets. The course should help students meet all Earth and space standards up to the grade level the course is offered.

03049 Earth Science—Other

(Provide local course description.)

B. Biology

03051 Biology

Courses in this classification are designed to provide information regarding the fundamental concepts of life and life processes. These courses include, but are not limited to, topics such as cell structure and function, general plant and animal physiology, genetics and taxonomy.

03052 Biology—Advanced Studies

Courses in this classification usually provide a comprehensive initial study of biology and cover biological systems in more detail. Topics explored may include cell organization, function and reproduction; energy transformation; human anatomy and physiology; and the evolution and adaptation of organisms.

03053 Anatomy and Physiology

Courses in this classification usually provide a comprehensive initial study of biology and examine the human body and biological systems in more detail. Students learn anatomical terminology, study cells and tissues, explore functional systems such as skeletal, muscular, circulatory, respiratory, digestive, reproductive and nervous systems. They may dissect mammals.

03054 Anatomy

Courses in this classification examine the human body and biological system. Students study such topics as anatomical terminology, cells, tissues and typically explore functional systems such as skeletal, muscular, circulatory, respiratory, digestive, reproductive and nervous systems.

03055 Physiology

Courses in this classification examine all major systems, tissues and muscle groups in the human body to support understanding of how these systems interact and their role in maintaining homeostasis. Courses may also cover such topics as cell structure and function, metabolism and the human life cycle.

03056 AP Biology

Courses in this classification adhere to the curricula recommended by the College Board and are designed to parallel college level introductory biology courses. They stress basic facts and their synthesis into major biological concepts. Content covers three general areas: molecules and cells, including biological chemistry and energy transformation; genetics and evolution; and organisms and populations, including taxonomy, plants, animals and ecology. Laboratory experiments are included.

03057 IB Biology

Courses in this classification prepare students to take the International Baccalaureate Biology exams. In keeping with the general aim of IB Experimental Sciences courses, IB Biology promotes understanding of the facts, principles, and concepts underlying the biological field; critical analysis, evaluation, and generation of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of biology and scientific advances in biology upon both society and issues of ethical, philosophical, and political importance. Course content varies, but includes study of statistical analysis, cells, the chemistry of life, genetics, ecology and evolution, and human health and physiology, nucleic acids, metabolism, plant biology, genetics, and animal physiology. Laboratory experimentation is an essential component of these courses.

03058 Botany

Courses in this classification provide students with an understanding of plants, their life cycles and their evolutionary relationships.

03059 Genetics

Courses in this classification provide students with an understanding of general concepts concerning genes, heredity and variation of organisms. Course topics typically include chromosomes, the structure of DNA and RNA molecules and dominant and recessive inheritance. They may also include lethal alleles, epistasis and hypostasis and polygenic inheritance.

03060 Microbiology

Courses in this classification provide students with a general understanding of microbes, prokaryotic and eukaryotic cells and the three domain systems. Additional topics covered may include bacterial control, cell structure, fungi, protozoa, viruses and immunity, microbial genetics and metabolism.

03061 Zoology

Courses in this classification provide an understanding of animals, the niche they occupy in their environment, their life cycles and their evolutionary relationships to other organisms. These courses should also help students develop an awareness and understanding of biotic communities.

03062 Conceptual Biology

Courses in this classification provide students with a basic understanding of living things. Topics covered may include ecology and environmental problems such as overpopulation and pollution as well as cells, types of organisms, evolutionary behavior and inheritance.

03063 Forensics–Biology Emphasis

Courses in this classification provide an understanding of the scientific principles involved in criminal investigations, including the forensic techniques and processes necessary to collect, identify and analyze biological evidence. Topics of study typically include, but are not limited to blood types, DNA and genetics, decomposition and physiological systems of the body as well as crime scene documentation.

03064 Regional Biology

Courses in this classification are designed to provide information regarding the fundamental concepts of life and life processes as related to the local environment. Course topics may include nature appreciation, local flora and fauna, biology and zoology.

03065 Life Science (prior-to-secondary)

Courses in the classification cover basic principles of life science, such as levels of organisms, ecosystems, reproduction, variation, health, and disease. The course should help students meet all life science standards up to the grade level the course is offered.

03067 Physical Science (prior-to-secondary)

Courses in the classification cover basic principles of physical science, such as matter, energy, force, and motion. Topics may include conservation of energy and matter, heat, sound, light, electricity. The course should help students meet all physical science standards up to the grade level the course is offered.

03069 Nutrition Science

Courses in the classification focus on the examination of individual nutrients; their structure and function in the human body; nutrient composition of food; and selection of food to meet nutrient needs, maintain health and provide satisfaction. Topics covered include digestion, absorption, and metabolism of carbohydrates, lipids, and proteins; vitamins and minerals; physical activity; nutritional needs throughout the life cycle; and evaluation of nutritional claims.

03070 PLTW Biomedical Innovation™

Courses in this classification adhere to the Project Lead the Way (PLTW) curriculum and are offered at an official PLTW site. PLTW Biomedical Innovation courses help students apply their knowledge and skills to design innovative solutions related to biomedical challenges. These courses address topics ranging from public health and biomedical engineering to clinical medicine and physiology. These courses may also provide students with the opportunity to work with a mentor or advisor from a university, medical facility, or research institution. Students may design and complete an independent project as part of the course.

03099 Biology–Other

(Provide local course description.)

C. Chemistry

03101 Chemistry

Courses in this classification involve the composition, properties and reactions of substances. They typically explore the behaviors of solids, liquids and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas, equations and nuclear reactions are also studied.

03102 Chemistry–Advanced Studies

Courses in this classification usually provide a comprehensive initial study of chemistry and cover chemical properties and interactions in more detail. Topics include organic chemistry, thermodynamics, electrochemistry, macromolecules, kinetic theory and nuclear chemistry.

03103 Organic Chemistry

Courses in this classification involve the study of organic molecules and functional groups. Topics covered may include nomenclature, bonding molecular structure and reactivity, reaction mechanisms and current spectroscopic techniques.

03104 Physical Chemistry

Courses in this classification are typically taken after the completion of a calculus course and cover chemical kinetics, quantum mechanics, molecular structure, molecular spectroscopy and statistical mechanics.

03105 Conceptual Chemistry

Courses in this classification are practical, non-quantitative chemistry courses designed for students who desire an understanding of chemical concepts and applications.

03106 AP Chemistry

Courses in this classification follow the curricula recommended by the College Board and are usually taken after high school chemistry and second-year algebra. Topics may include atomic theory and structure; chemical bonding; nuclear chemistry; states of matter; and reactions, including stoichiometry, equilibrium, kinetics and thermodynamics. Laboratories are equivalent to college courses.

03107 IB Chemistry

Courses in this classification prepare students to take the International Baccalaureate Chemistry exams. In keeping with the general aim of IB Experimental Sciences courses, IB Chemistry promotes understanding of the facts, patterns, and principles underlying the field of chemistry; critical analysis, evaluation, prediction, and generation of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of chemistry and scientific advances in chemistry upon both society and issues of ethical, philosophical, and political importance. Course content varies, but includes the study of quantitative and organic chemistry; atomic structure, periodicity, bonding, energetics, kinetics, equilibrium, acids and bases, oxidations and reduction, and measurement and data processing. Laboratory experimentation is an essential part of these courses.

03108 Forensics–Chemistry Emphasis

Courses in this classification provide an understanding of the scientific principles involved in criminal investigations, including the forensic techniques and processes necessary to collect, identify and analyze chemical evidence. Topics of study typically include, but are not limited to, the composition of substances, toxicology, hair and fiber analysis, and crime scene documentation.

03149 Chemistry–Other

(Provide local course description.)

D. Physics

03151 Physics

Courses in this classification involve the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena.

03152 Physics–Advanced Studies

Courses in this classification are usually taken after a comprehensive initial study of physics and provide instruction in laws of conservation, thermodynamics, and kinetics; wave and particle phenomena; electromagnetic fields; and fluid dynamics.

03153 Principles of Technology

Courses in this classification focus on the forces and laws of nature and their application to technology. Equilibrium, motion, momentum, energy conversion, electromagnetism, and optical phenomena are presented in the context of current, real-world applications. Demonstrations and applied laboratory experiments are an integral part of these courses. They enable students to gain a foundation for careers in electronics, robotics, telecommunications and other technological fields.

03156 AP Physics C

Courses in this classification are designed by the College Board to parallel college-level physics courses that serve as a partial foundation for science or engineering majors, AP Physics C courses primarily focus on mechanics and electricity/magnetism, with approximately equal emphasis on these two areas. AP Physics C courses are more intensive and analytical than AP Physics B courses and require the use of calculus to solve the problems posed.

03157 IB Physics

Courses in this classification prepare students to take the International Baccalaureate Physics exams. In keeping with the general aim of IB Experimental Sciences courses, IB Physics promotes understanding of the facts, patterns, and principles underlying the field of physics; critical analysis, prediction, and application of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of scientific advances in physics upon both society and issues of ethical, philosophical, and political importance. Course content varies, but includes the study of physical measurement; mechanics; thermal, atomic, and nuclear physics; oscillations and waves; electric currents; fields and forces; and energy, power, and climate change. Laboratory experimentation is essential; calculus may be used in some courses.

03158 Life Science

Courses in the classification 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.

03159 Physical Science

Courses in this classification involve study of the structures and states of matter. Typically, but not always, offered as introductory survey courses, they may include such topics as forms of energy, wave phenomenon, electromagnetism, and physical and chemical interactions.

03161 Conceptual Physics

Courses in this classification introduce the use of chemicals, characteristic properties of materials, and simple mechanics to describe the world and nonliving matter. They emphasize precise measurements and descriptive analysis of experimental results. Topics include energy and motion, electricity, magnetism, heat, the structure of matter, and how matter reacts to materials and forces.

03162 Forensics–Physics Emphasis

Courses in this classification provide an understanding of the scientific principles involved in criminal investigations, including the forensic techniques and processes necessary to collect, identify and analyze physical evidence. Topics of study typically include, but are not limited to, blood spatter, trauma direction, ballistics and tool marking as well as crime scene documentation

03163 AP Physics C: Electricity and Magnetism

Courses in this classification parallel college-level physics courses that serve as a partial foundation for science or engineering majors. They focus on electricity and magnetism, including topics such as electro-statics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. These courses require the use of calculus to solve the problems posed.

03164 AP Physics C: Mechanics

Courses in this classification parallel college-level physics courses that serve as a partial foundation for science or engineering majors. They focus on classical mechanics, including topics in kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. These courses require the use of calculus to solve the problems posed.

03165 AP Physics 1

Courses in this classification parallel first-semester college-level courses in algebra-based physics. They focus on Newtonian mechanics including rotational motion; work, energy and power; mechanical waves and sound; and introductory circuits. These courses may also include college-level laboratory investigations.

03166 AP Physics 2

Courses in this classification parallel second-semester college-level courses in algebra-based physics. They focus on fluid statistics and dynamics; thermodynamics and kinetic theory, PV diagrams and probability; electrostatics, electrical circuits and capacitors; magnetic fields; electromagnetism, physical and geometric optics; and quantum, atomic and nuclear physics. These courses may also include college-level laboratory investigations.

03199 Physics–Other

(Provide local course description.)

E. Integrated/Other

03201 Integrated Science

Courses in this classification vary in content but draw upon the principles of several scientific specialties—earth science, physical science, biology, chemistry and physics—and organize the material into multiple thematic units. Units may be developed around themes such as systems, models, energy, patterns, or change and constancy. These courses use appropriate aspects from each science specialty to investigate applications of the theme.

03202 Unified Science

Courses in this classification combine or integrate more than one branch of science into a cohesive course of study. Typically, scientific concepts appropriate to the course of study are explored, as are the principles underlying the scientific method and experimentation techniques.

03203 Applied Biology/Chemistry

Courses in the classification integrate biology and chemistry into a unified domain of study and present the resulting body of knowledge in the context of work, home, society, and the environment, emphasizing field and laboratory activities. Topics include natural resources, water, air and other gases, nutrition, disease and wellness, plant growth and reproduction, life processes, microorganisms, synthetic materials, waste and waste management, and the community of life.

03204 Forensics–Integrated Study

Courses in this classification provide an understanding of the scientific principles involved in criminal investigations, including the forensic techniques and processes necessary to collect, identify and analyze biological, chemical and physical evidence. Topics of study typically include, but are not limited to fingerprinting, blood types, DNA and genetics, toxicology, decomposition and physiological systems of the body, hair and fiber analysis, blood spatter and trauma direction, ballistics and tool markings as well as crime scene documentation.

03205 Origins of Science

Courses in the classification explore the body of scientific knowledge and discoveries from an historical perspective, wherein students gain an understanding of how one discovery led to others or to entire revolutions of thought. In these courses, original experiments may be replicated, and students may study primary materials.

03206 IB Design Technology

Courses in this classification prepare students to take the International Baccalaureate Design Technology exams. In keeping with the general aim of IB Experimental Sciences courses, IB Design Technology courses promote using critical-thinking and design skills to solve problems in a practical context. Practical/investigative work centers on the design process; product design, development, and innovation; green design; materials; and evaluation.

03207 AP Environmental Science

Courses in this classification are designed by the College Board to provide students with the principles, concepts, and methodologies required to understand the natural world, identify and analyze environmental problems, evaluate the relative risks associated with the problems, and examine alternative solutions for resolving and/or preventing them. Topics covered include science as a process, ecological processes and energy conversions, earth as an interconnected system, the impact of humans on natural systems, cultural and societal contexts of environmental problems and the development of practices that will ensure sustainable systems.

03208 IB Environmental Systems and Societies

Courses in this classification prepare students to take the International Baccalaureate Environmental Systems exam by providing them with the knowledge, methods, and techniques to understand the nature and functioning of natural systems, the relationships that affect environmental equilibrium, and human impact on the biosphere. Topics also include ecosystem integrity and sustainability, students' own relationships to the environment, and the nature of internationalism in resolving major environmental issues. This is considered an interdisciplinary course and students may receive credit within two IB subject areas: sciences, and individuals and societies.

03209 Aerospace

Courses in this classification explore the connection between meteorology, astronomy, and flight across and around the earth as well as into outer space. In addition to principles of meteorology (atmosphere, pressures, winds and jet streams) and astronomical concepts (solar system, stars, and interplanetary bodies), course topics typically include the history of aviation, principles of aeronautical decision-making, airplane systems, aerodynamics and flight theory.

03210 IB Sports, Exercise, and Health Science

Courses in this classification prepare students to take the International Baccalaureate Sports, Exercise, and Health Science exam. These courses are designed to provide students with an understanding of the science of physical performance. Course topics may include anatomy and physiology, biomechanics, psychology and nutrition, and the measurement and evaluation of human performance.

03211 Technical Science

Courses in this classification introduce students to scientific tools and methods and provide an introduction to chemistry and physics. Topics covered typically include measurement conversion, model creation, use of scientific methods, interpretation of atoms, identification of the properties of common compounds, analysis of chemical equations, the impact of force on linear motion, and the study of various physical phenomena and forms of energy.

03212 Scientific Research and Design

Courses in the classification provide students with the opportunity to conceive of, design, and complete a project using scientific inquiry and experimentation methodologies. Emphasis is typically placed on safety issues, research protocols, controlling or manipulating variables, data analysis, and a coherent display of the project and its outcome(s).

03213 Field Studies–Science

Courses in this classification provide students with the opportunity to live and/or work in an area that has significance, including, but not limited to, biology, geology or an environmental nature. While topics of study vary considerably and may be of an interdisciplinary nature, students typically work with local experts and may be involved in observation, research, preservation, restoration or improvement projects.

03214 Seminar/Project–Science

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in science. They may include college and/or career exploration and planning. Students often design a project based on an area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

03215 English as a Second Language (ESL)–Transition Science

Courses in this classification are designed for English language learners and may include an overview of scientific areas, including earth and physical science, biology, chemistry and physics or focus on particular areas. They may also include preparation for state science assessments. These courses provide a transition from ESL to mainstream high school science courses and are taught by a science teacher and an ESL teacher or one teacher with dual certification in science and ESL.

03216 Bilingual Science

Courses in this classification are taught in the student's native language and may include an overview of or integrated approach to the scientific areas, including earth and physical science, biology, chemistry and physics or focus on a particular area or areas. They may also include preparation for state science assessments.

03217 Scientific, Technology and Society

Courses in the classification encourage students to explore and understand the ways in which science and technology shape culture, values, and institutions and how such factors, in turn, shape science and technology. Topics covered may include how science and technology enter society and how they change as a result of social processes.

03218 Technological Inquiry

Courses in the classification provide students with an understanding of the use of process skills as an integral part of scientific activity and technological development. Students learn how scientific phenomena are explained, measured, predicted, organized, and communicated.

03219 IB Sciences, Middle Years Program

Courses in the classification provide to students a body of knowledge and an understanding of the scientific approach to problem-solving. It may be organized as biology, chemistry, and physics, or as an integrated sciences course. The course requires students to formulate hypotheses, design and carry out experiments to test them, and evaluate results. Use this classification only in official IB sites.

03230 Science (Kindergarten)

Courses in this classification encourage students to observe and describe properties of plants and animals, natural systems, and the environment. Students may raise questions, identify patterns and record observations. Specific content depends upon state standards for kindergarten.

03231 Science (Grade 1)

Courses in this classification allow students to make and describe observations and use them as evidence. This includes measuring weather and studying animals. Specific content depends upon state standards for grade one.

03232 Science (Grade 2)

Courses in this classification continue to introduce students to basic scientific and engineering 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 two.

03233 Science (Grade 3)

Courses in this classification involve observations and investigations of simple systems. Course content may include scientific processes; energy of sound and light; the solar system; life and environmental science; and structures and variation of plants and animals. Specific content depends upon state standards for grade three.

03234 Science (Grade 4)

Courses in this classification typically utilize science processes and engineering design to investigate properties of solids liquids and gasses; characteristics of rocks, minerals and the water cycle; and activities to prevent diseases. Specific content depends upon state standards for grade four.

03235 Science (Grade 5)

Courses in this classification build student skills and conducting scientific investigations and controlled experiments. Topics will include motion, forces in motion and simple machines; surfaces process on the earth, including weathering; and interactions within ecosystem and with humans. Specific content depends upon state standards for grade five.

03236 Science (Grade 6)

Courses in this classification build on skills and understanding of engineering. Topics will include the particle model for explaining properties of matter and physical changes; descriptions of forces, motion and mechanical energy; and wave properties of sound and light. Specific content depends upon state standards for grade six.

03237 Science (Grade 7)

Courses in this classification build skills of scientific inquiry to include multivariable experiments and evaluating evidence. Life science topics include cells, ecosystems, reproduction, evolution, and diseases. The course also includes matter topics of elements, atoms, and reactions. Specific content depends upon state standards for grade seven.

03238 Science (Grade 8)

Courses in this classification strengthen skills in science reasoning and interactions with societal factors. Matter topics include chemical changes and reactions. Earth Science topics include weather and climate; solar system forces and motions; and plate tectonics and earth history. Specific content depends upon state standards for grade eight.

03994 Biology/Life Science—Proficiency Development

Courses in this classification focus on remediation of students' knowledge and skills in science to improve their performance on state science examinations.

03995 Life and Physical Sciences–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students and may serve as laboratory assistants.

03996 Credit Recovery–Science

Courses in this classification are designed to enable students to recover credits required for graduation in the science curriculum area.

03997 Life and Physical Sciences–Independent Study

Courses in this classification, often conducted with instructors as mentors, enable students to explore topics of interest related to science. These courses may serve as an opportunity for students to expand their expertise, to explore a topic in detail, or to develop advanced skills.

Subject Area 04: Social Sciences and History

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) classifications are written to describe all grades in the K-12 grade-level span, unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications.

NOTE: Always see complete descriptions for the most accurate classification.

1. Classification of social study courses require close reading of descriptions, not just titles as local course titles often do not correspond to classification titles in the national model used to create the MCCC. For example, some local civics courses include both economics and U.S. government. Those courses should be classified as *04160 Principles of Democracy* as the classification *04161 Civics* does not include the study of economics.
2. This subject area has the course classification “Particular Topics” in one or more categories. Use this classification when local courses focus on a topic or combination of topics that are not specified in other MCCC classifications listed within the category.
3. Some local courses combine two MCCC course classifications or topics and no MCCC course exists for that local combination (and there is no “Particular Topics” in the category). If one of the topics in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that topic. If all topics are of equal focus, use the “Other” course classification at the end of the category or subject area to classify the local combination and provide a brief description of local course content.
4. **Local IB or AP preparation courses should not be classified under the official IB or AP classifications listed in the MCCC.** They should be classified under the MCCC course classification that best describes the content and documented for course level as “E” for enriched or honors. Only IB and AP approved curriculum designed for AP and IB can use the AP and IB course classifications.
5. Local IB history course titles may include the specific area of the world studied; for example, IB History of the Americas or IB History of Africa. However, they all fit under the one MCCC course classification *04054 IB History*.
6. Religious studies classifications are listed in *07 Religious Education and Theology*.
7. Local justice and the criminal court system courses are most accurately classified as *04165 Legal System*. *04162 Law Studies* includes both criminal and civil law, including topics such as torts, contracts and property law.
8. The two English as a Second Language (ESL) social studies classifications in this Subject area are:
 - a. *04984 English as a Second Language (ESL)–Transition Social Studies* used when the course is taught by a content licensed instructor who has training and experience in integrating content and language instruction while providing scaffolds that make instruction and assessment accessible for students with English learner status.
 - b. *04985 Bilingual Social* used for courses taught in more than one language by instructors who are proficient in the languages of instruction and licensed in the content area.

- c. **Note:** Additional ESL course classifications are listed in **23 Academic and Career Development, Category F. English Language Development.** Used when taught by an ESL licensed instructor for courses that are primarily designed to meet the English language development needs of students with English learner status. These courses often address the language demands of specific content areas, but they are language courses, not content courses.
- 9. Literature and social studies paired course classifications that offer credit for language arts and social studies (typically in two class periods) are listed in 01 English Language and Literature. One course is *01055 American Literature/Social Studies Combination*; the other is *01057 World or British Literature/Social Studies Combination*.
- 10. The distinctions among these “issues” and “affairs” classifications: a) *04064 Contemporary World Issues*; b) *04106 Contemporary U.S. Issues*; c) *04155 International Relations*; and, d) *14156 United States and World Affairs* are slight. A close reading of the descriptions is necessary to make an accurate classification of local course offerings.
- 11. Local community service and community/organization leadership courses that enable students to participate in and examine social issues should be classified as *04981 Community Service/Leadership*.

III. Social Sciences and History course categories

Category	Code Range
A. Geography	04(001)–04(050)
B. World History	04(051)–04(100)
C. U.S. History	04(101)–04(150)
D. Government, Politics and Law	04(151)–04(200)
E. Economics	04(201)–04(250)
F. Social Sciences	04(251)–04(300)
G. Humanities	04(301)–04(350)
H. All Others	04(981)–04(999)

A. Geography

04001 World Geography–Overview

Courses in this classification provide an overview of world geography, but may vary widely. 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.

04002 Particular Topics in Geography

Courses in this classification 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.

04003 IB Geography

Courses in this classification prepare students to take the International Baccalaureate Geography exams. These courses integrate both physical and human geography and explore scientific and socio-economic methodologies and fieldwork. In general, IB Geography courses aim to help students understand the relationships within society, the relationships between society and the natural environment, and how those relationships change over time.

04004 AP Human Geography

Courses in this classification follow the College Board’s suggested curriculum and are designed to parallel college-level Human Geography courses. They introduce patterns and processes that have shaped the ways in which humans understand, use and alter the earth’s surface. Students use spatial concepts and landscape analysis to examine human social organization and its environmental consequences as well as learn about the methods and tools geographers use in their practice.

04005 Human Geography

Courses in this classification examine the patterns and processes that have shaped the ways in which humans understand, use and alter the earth’s surface. Students use spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their practice.

B. World History

04051 World History—Overview

Courses in this classification 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. They may include limited geographical components.

04052 World History and Geography

Courses in this classification address the objectives of world history overview courses while providing an overview of world geography and exploring geographical concepts.

04053 Modern World History

Courses in this classification provide an overview of the history of human society in the past few centuries—from the Renaissance period, or later, to the contemporary period—exploring political, economic, social, religious, military, scientific, and cultural developments.

04054 IB History

Courses in this classification prepare students to take the International Baccalaureate History exams. In these courses, students study historical developments at national, regional, and international levels; critically reflect on their relationship to the present; and explore the nature of historical documentation and the methods used by historians. IB History courses may survey the history of Europe and the Islamic world or focus on 20th-century topics in an international context and may enable students to undertake individual study on a subject of interest in greater detail and depth.

04055 Modern European History

Courses in this classification examine the development of political, social, and economic movements in Europe over the past few centuries (from the Renaissance period, or later, to the contemporary period) and usually include such topics as the rise of the modern nation state, scientific and industrial revolutions, the age of exploration and nationalism, imperialism and world war.

04056 AP European History

Courses in this classification follow the College Board's suggested curriculum designed to parallel college-level European History courses. AP European History courses examine European civilization in four chronological periods, from 1450 to the present, and also expose students to the factual narrative. In addition, these courses help students develop an understanding of some of the principal themes in modern European history and the abilities to analyze historical evidence and to express that understanding and analysis in writing.

04058 Ancient Civilizations

Courses in this classification provide a survey of the evolution of society from the ancient Middle East through Greek and Roman civilizations. Typically, students study the rise and fall of civilizations and empires, with an emphasis on the legacies they provide to successive societies.

04059 Medieval European History

Courses in this classification survey European civilization from the fall of Rome through the Late Middle Ages.

04060 Ancient and Medieval History

Courses in this classification combine a study of ancient civilizations and Medieval Europe, beginning with the civilizations of the ancient Middle East and continuing through the Late Middle Ages in Europe.

04061 World Area Studies

Courses in this classification 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. They may focus on the history of a particular region or may take an interdisciplinary approach to the contemporary issues affecting the region. They may emphasize one particular country (other than the United States), rather than a region or continent.

04062 World People Studies

Courses in this classification examine 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.

04063 Western Civilization

Courses in this classification apply an interdisciplinary approach to the study of western cultural traditions, frequently using a chronological framework. 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.

04064 Contemporary World Issues

Courses in this classification examine political, economic, and social issues facing the world. They may focus on current issues, examine selected issues throughout the 20th century, and look at historical causes or possible solutions.

04065 Particular Topics in World History

Courses in this classification examine particular topics in world history other than those already described.

04067 AP World History: Modern

Courses in this classification are designed to parallel college-level World History courses, AP World History: Modern courses examine world history from 1200 CE to the present with the aim of helping students make connections of historical evolution across times and places. These courses highlight the interaction between humans and the environment; development and interaction of cultures; state-building, expansion and conflict; creation, expansion and interaction of economic systems; development and transformation of social structures; and technology and innovation.

C. U.S. History

04101 U.S. History—Comprehensive

Courses in this classification 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. They typically include a historical overview of political, military, scientific, and social developments. Content may include a history of the North American peoples before European settlement.

04102 Early U.S. History

Courses in this classification examine the history of the United States from the colonial period to the Civil War or Reconstruction era (some courses end after this period). Some courses include American history before European settlement, while others begin at the formation of the new nation. They typically include an historical overview of political, military, scientific and social developments.

04103 Modern U.S. History

Courses in this classification examine the history of the United States from the Civil War or Reconstruction era (some courses begin at a later period) through the present time. These courses typically include an historical review of political, military, scientific and social developments.

04104 AP U.S. History

Courses in this classification follow the College Board's suggested curriculum and parallel college-level U.S. History courses. They provide students with the analytical skills and factual knowledge necessary to address critical problems and issues in U.S. history. Students assess historical materials and weigh the evidence and interpretations presented in historical scholarship. Courses examine the discovery and settlement of the New World through the recent past.

04105 State-Specific Studies

Courses in this classification examine the history, politics, economics, society, and/or cultures of one state in the United States. They may focus primarily on the history of that state or may take an interdisciplinary approach to the contemporary issues affecting it.

04106 Contemporary U.S. Issues

Courses in this classification examine the political, economic, and social issues facing the United States, with or without an emphasis on state and local issues. They may focus on current issues or may examine selected issues that span throughout the 20th century to the present.

04107 U.S. Ethnic Studies

Courses in this classification examine the history, politics, economics, society, and/or culture of one or more of the racial/ethnic groups in the United States. They 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.

04108 U.S. Gender Studies

Courses in this classification examine the history, politics, economics, and/or culture of gender in the U.S. They may focus on gender relations or take a comprehensive approach to contemporary issues of gender.

04109 Particular Topics in U.S. History

Courses in this classification examine a particular topic or a particular time periods in U.S. history or they may focus on the history of particular U.S. regions rather than provide an overview of the subject.

04110 U.S. Wars and Military Conflicts

Courses in this classification focus on the study of one or more wars and major military conflicts in which the United States had a significant role. These courses concentrate on one of many topics related to war, including the causes; U.S. involvement; and social, political, and economic effects. Specific wars may include the Revolutionary War, American Civil War, World War I, World War II, Korean War, Vietnam War, Gulf War, or other contemporary military conflicts.

D. Government, Politics, and Law

04151 U.S. Government—Comprehensive

Courses in this classification 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. They may examine the structure and function of state and local governments and cover selected economic and legal topics.

04152 Particular Topics in U.S. Government

Courses in this classification examine a particular topic pertaining to U.S. government and political institutions rather than provide a general overview of the subject. They may concentrate on a topic(s) related to governmental structure, function and purposes, such as the Constitution, the Supreme Court, Congress or the Office of the President.

04153 Political Science

Courses in this classification approach the study of politics from a theoretical perspective, including an examination of the role of government and the nature of political behavior, power and action.

04154 Comparative Government

Courses in this classification examine the basic tenets of government, identifying differences and similarities among several forms of government. These courses take a comparative approach to the study of government and politics, focusing on how the United States compares with other nations.

04155 International Relations

Courses in this classification provide an introduction to the relationships among nations, including an examination of the modern state; the foreign policies of nations; the dynamics of nationalism, ideology and culture; and the role of international organizations. Contemporary events may be included.

04156 United States and World Affairs

Courses in this classification provide a study of global interrelationships. Topics covered may include geographic, political, economic, and social issues of a particular country or region, with an emphasis on how these issues influence, or are influenced by, the way in which the United States relates to other countries in an interdependent world.

04157 AP U.S. Government and Politics

Courses in this classification follow the College Board's suggested curriculum designed to parallel college-level U.S. Government and Politics courses. These courses provide students with an analytical perspective on government and politics in the United States, involving both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies and foundational documents. The courses generally cover foundations of American democracy, interaction among branches of government, political beliefs and behaviors, political participation, and civil rights and liberties.

04158 AP Comparative Government and Politics

Courses in this classification follow the College Board's suggested curriculum and parallel college-level courses. Students study the world's diverse political structures and practices. Courses encompass both specific countries and general concepts used to interpret the key political relationships found in national policies. Content generally includes sources of public authority and political power, the relationship between states and society, the relationships between the political and institutional frameworks of citizens and states, political change, and comparative methods.

04159 AP Government

Courses in this classification prepare students for the AP exams in both U.S. Government and Politics and Comparative Government and Politics. Course content includes the topics covered in those two separate courses as described above.

04160 U.S. Government, Civics, and Economics

Courses in this classification combine a study of the structure of national, state, and local U.S. government with an overview of the principles of market economics. Content may include contemporary U.S. issues. The purpose of these courses is to prepare students to perform effectively as informed citizens.

04161 Civics

Courses in this classification examine the structure and functions of U.S. 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. They do not typically delve into as much detail on constitutional principles or the role of political parties and interest groups as do comprehensive courses in U.S. Government.

04162 Law Studies

Courses in this classification examine the history and philosophy of law as part of U.S. society and include the study of the major substantive areas of both criminal and civil law, such as constitutional rights, torts, contracts, property, criminal law, family law, and equity. Although these courses emphasize the study of law, they may also cover the workings of the legal system.

04163 Consumer Law

Courses in this classification present a history and philosophy of law and the legal system in the United States, with a particular emphasis on those topics affecting students as consumers and young adults (such as contractual laws, laws pertaining to housing and marriage, and constitutional rights).

04164 Business Law

Courses in this classification present a history and philosophy of law and the legal system in the United States, with a particular emphasis on those topics affecting students as future business leaders and employees. Such topics may include contracts, commercial paper and debt instruments, property rights, employer/employee relationships, and constitutional rights and responsibilities.

04165 Legal System

Courses in this classification examine the U.S. criminal and civil justice systems, including civil and criminal law and the legal process, the structure and procedures of courts, and the role of legal or judicial agencies. Content may also include the history and foundation of U.S. law (the Constitution, statutes and precedents). Contemporary problems in the criminal justice system may be included.

04166 Particular Topics in Law

Courses in this classification examine a particular topic in law such as the Constitution, specific statutes, or the legal process rather than provide an overview.

04167 Simulated Political Process

Courses in this classification provide students with the opportunity to confront and resolve national and international issues by mirroring local, national, or international governmental bodies. These courses focus on government and international relations, conflict resolution, and policies and procedures of government. Course topics may include simulations of jury trials and national or international governmental organizations.

04169 IB Global Politics

Courses in this classification prepare students to take the International Baccalaureate Global Politics exams through the exploration of political concepts and development of an understanding of local, national, international, and global dimensions of political activity. Topics may include contemporary global political challenges.

04171 IB Individuals and Societies, Middle Years Program

Courses in this classification aim to develop the understanding and application of concepts (time, place and space, change, systems and global awareness) and skills (technical, analytical, problem-solving, and investigative). Content may include topics such as geography, history, economics, politics, civics, sociology, anthropology, and psychology. These courses were formerly known as IB Humanities, Middle Years Program. Use this classification only in official IB sites.

E. Economics

04201 Economics

Courses in this classification provide an overview of economics with emphasis on the principles of microeconomics and the U.S. economic system. Topics may include principles of macroeconomics, international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied contexts, or both.

04202 Comparative Economics

Courses in this classification offer students an opportunity to study different economies and economic systems, including an examination of various approaches to problems in micro- and macroeconomics.

04203 AP Microeconomics

Courses in this classification follow the College Board’s suggested curriculum and parallel college-level microeconomics. They provide a thorough understanding of the principles of economics that apply to the functions of individual decision-makers (both consumers and producers). Courses may place primary emphasis on the nature and functions of product markets, while including a study of factor markets and the role of government in the economy.

04204 AP Macroeconomics

Courses in this classification follow the College Board’s suggested curriculum and parallel college-level macroeconomics. They provide a thorough understanding of the principles of economics that apply to an economic system as a whole. They place particular emphasis on the study of national income and price determination and developing students’ familiarity with economic performance measures, economic growth, and international economics.

04205 AP Economics

Courses in this classification prepare students for the College Board’s examinations in both Microeconomics and Macroeconomics; these courses include the content of the two separate courses as described above.

04206 IB Economics

Courses in this classification prepare students to take the International Baccalaureate Economics exams. The courses provide students with the basic tools of economic reasoning and teach them to use those tools to explain or interpret economic problems. Course content includes international and development economics, microeconomics, and macroeconomics.

04207 Particular Topics in Economics

Courses in this classification examine a particular topic in economics rather than provide a general overview of the field. Course topics may include international economics, economic development and growth of a particular country or region, or resource allocation.

04208 Microeconomics

Courses in this classification provide students with an understanding of the principles of economics that apply to the decision-making behaviors of individuals. Economic principles may be presented in a formal theoretical context, applied contexts, or both.

04209 Macroeconomics

Courses in this classification provide students with an understanding of the principles of economics that apply to the performance, structure, behavior, and decision-making of an economy (regional, national, or global) as a whole. Economic principles may be presented in a formal theoretical context, applied contexts, or both.

F. Social Sciences

04251 Anthropology

Courses in this classification introduce the study of human evolution with regard to the origin, distribution, physical attributes, environment, and culture of human beings. They provide an overview of anthropology, including, but not limited to, both physical and cultural anthropology.

04252 Particular Topics in Anthropology

Courses in this classification examine a particular topic in anthropology, such as physical anthropology, cultural anthropology, or archeology, rather than provide a comprehensive overview of the field.

04253 IB Social and Cultural Anthropology

Courses in this classification prepare students to take the International Baccalaureate Social and Cultural Anthropology exams. The courses aim to promote students' awareness of underlying patterns and causes of social relationships and systems, preconceptions and assumptions within the social environment, and the use of ethnographic data in creating models, drawing inferences, and making comparisons.

04254 Psychology

Courses in this classification introduce students to the study of individual human behavior. Content typically includes, but is not limited to, an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology.

04255 Particular Topics in Psychology

Courses in this classification examine a particular topic in psychology, such as human growth and development or personality, rather than provide a more comprehensive overview of the field.

04256 AP Psychology

Courses in this classification follow the College Board's suggested curriculum designed to parallel a college-level introductory psychology course. AP Psychology courses introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals, expose students to each major subfield within psychology, and enable students to examine the methods and ethics that psychologists use in their science and practice.

04257 IB Psychology

Courses in this classification prepare students to take the International Baccalaureate Psychology exams. Course content includes biological, cognitive, and socio-cultural influences on human behavior, as well as experimental research methodology. Course content may also include the study of abnormal, developmental, health or sport psychology, the psychology of human relationships, and qualitative research in psychology.

04258 Sociology

Courses in this classification introduce students to the study of human behavior in society. They provide an overview of sociology, generally including, but not limited to, topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society.

04259 Particular Topics in Sociology

Courses in this classification examine a particular topic in sociology, such as culture and society or the individual in society, rather than provide an overview of the field of sociology.

04260 Social Science

Courses in this classification typically provide an introduction to the disciplines in the social sciences, including anthropology, economics, geography, history, political science, psychology, and sociology. They emphasize the methodologies of and differences among the various disciplines.

04261 Social Science Research

Courses in this classification emphasize the methods of social science research, including statistics and experimental design.

G. Humanities

04301 Humanities Survey

Courses in this classification provide an overview of the cultural heritage of selected western and eastern civilizations. Content includes, but is not limited to, the examination of selected examples of art, music, literature, architecture, technology, philosophy and religion of the cultures studied. Courses may also cover the languages and political institutions of these cultures.

04302 Humanities

Courses in this classification examine student responses to human creative efforts and the world in particular historical periods and in particular cultures. Content includes exploration, analysis, synthesis, and various responses to cultural traditions. These courses may also examine relationships among painting, sculpture, architecture and music.

04303 Issues of Western Humanities

Courses in this classification introduce the study of cultural heritage and provide an opportunity to explore fundamental humanity. Content typically includes definitions of the humanities in relation to history, literature, religion, philosophy, art, music, and architecture and study of Greece, Rome, and one or more contemporary settings. Students analyze and clarify their sense of themselves and their responsibilities to others; examine philosophies concerning moral responsibility for the future; and explore philosophies about human mortality.

04304 IB Theory of Knowledge

Courses in this classification are required for every IB degree candidate. They stimulate critical self-reflection of students' knowledge and experiences. Content generates questions regarding the bases of knowledge in the disciplines of mathematics, natural sciences, human sciences, and history, with an awareness of moral, political judgments and biases. Students learn to appreciate the strengths and limitations of various kinds of knowledge; to relate studied subjects to one another, general knowledge and experiences; to formulate rational arguments; and to evaluate the role of language in knowledge.

04305 Social Studies

Courses in this classification enable students to study a group of related subjects addressing the elements and structures of human society that may include economics, geography, history, citizenship and other social studies-related disciplines.

04306 Philosophy

Courses in this classification introduce students to the discipline of philosophy as a way to analyze the principles underlying conduct, thought, knowledge and the nature of the universe. Content typically includes examination of the major philosophers and their writings.

04307 Particular Topics in Philosophy

Courses in this classification in this classification examine a particular topic in philosophy, such as aesthetic judgment, ethics, cosmology, or the philosophy of knowledge, rather than providing a more general overview of the subject.

04308 Modern Intellectual History

Courses in this classification provide a historical overview of modern intellectual movements, generally drawing from different disciplines such as political science, economics and philosophy.

04309 IB Philosophy

Courses in this classification prepare students to take the International Baccalaureate Philosophy exams. These courses challenge students to reflect upon and question the bases of knowledge and experience, to develop critical and systematic thinking, and to carefully analyze and formulate rational arguments. Students closely examine conceptual themes and philosophical texts, and also undertake philosophical analysis of a non-philosophical stimulus, such as a painting or poem.

04310 Particular Topics in Humanities

Courses in this classification cover particular topics in humanities such as the interrelationships among painting, sculpture, architecture and music or the exploration of a particular time period rather than provide a general overview of the subject.

H. All Others

04430 Social Studies (Kindergarten)

Courses in this classification generally provide initial foundations in the social studies disciplines: history, geography, civics and government, and economics. Specific content depends upon state standards for kindergarten.

04431 Social Studies (Grade 1)

Courses in this classification 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 one.

04432 Social Studies (Grade 2)

Courses in this classification help students reach greater understanding of the social studies disciplines: history, geography, civics and government, and economics. Courses 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 two.

04433 Social Studies (Grade 3)

Courses in this classification 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 a specific theme or discipline, such as state-based social studies or U.S. history. Specific content depends upon state standards for grade three.

04434 Social Studies (Grade 4)

Courses in this classification 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 U.S. history, state-specific history, or civic engagement for periods of time. Specific content depends upon state standards for grade four.

04435 Social Studies (Grade 5)

Courses in this classification continue to develop skills in history, geography, civics and government, and economics. These courses may be more discipline-specific (dividing up state history, U.S. history, geography, government, and so on). Specific content depends upon state standards for grade five.

04436 Social Studies (Grade 6)

Courses in this classification provide 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 six.

04437 Social Studies (Grade 7)

Courses in this classification 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 seven.

04438 Social Studies (Grade 8)

Courses in this classification provide continued development of understanding and skills in the social studies 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, U.S. history, world history, or civics) to develop discipline-related skills. Specific content depends upon state standards for grade eight.

04981 Community Service/Leadership

Courses in this classification are designed to assist students in acquiring the knowledge and skills to be effective in working within and/or leading community or school projects and organizations. Courses often have a classroom component that examines various local social and cultural issues including, but not limited to, history, economics, geography and citizenship.

04982 Field Studies–Social Studies

Courses in this classification provide students with the opportunity to live and/or work in an area that has significance of, but not limited to, geographical, historical, or cultural nature. Topics may vary. Students typically work with local experts and are involved in observation, research, preservation, restoration or improvement projects.

04983 Seminar/Project–Social Sciences and History

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in the social studies. They may include college and/or career exploration and planning. Students often design a project based on an area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication, interpersonal skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

04984 English as a Second Language (ESL)–Transition Social Studies

Courses in this classification are designed for English language learners and may include an overview of social studies areas—geography, history, economics, government and citizenship or focus on particular areas. These courses provide a transition from ESL to mainstream high school social courses and are taught by a social studies teacher and ESL teacher or by one teacher with dual certification in social studies and ESL.

04985 Bilingual Social Studies

Courses in this classification are taught in the student’s native language and may include an overview of or an integrated approach to the different social studies areas, including history, geography, government, citizenship, economics and the social sciences or focus on a particular area or areas.

04994 Social Sciences and History–Proficiency Development

Courses in this classification are designed to assist students in acquiring the skills necessary to pass local or state proficiency examinations related to history and/or other social sciences.

04995 Social Sciences and History–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

04996 Credit Recovery–Social Studies

Courses in this classification are designed to enable students to recover credits required for graduation in the social studies curriculum area.

04997 Social Sciences and History–Independent Study

Courses in this classification, often conducted with instructors as mentors, enable students to explore topics of interest within one of the fields of social studies. They provide students with an opportunity to expand their expertise, to explore a topic of interest, or to develop advanced skills.

04999 Social Sciences and History–Other

(Provide local course description.)

Subject Area 05: Visual and Performing Arts

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) classifications are written to describe all grades in the K-12 grade-level span, unless otherwise indicated in the title or description. Classify local courses according to these multi-grade classifications even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. General K-12 Information

- a. **Local IB or AP preparation courses should not be classified under the official IB or AP classifications listed in the MCCC.** They should be classified under the MCCC course classification that best describes the content and course level should be documented as “E” for enriched or honors. Only IB and AP approved curriculum designed for AP and IB can use the AP and IB course classifications.
- b. The Minnesota Academic Standards in the Arts have five arts areas: dance, media arts, music, theater, and visual arts. MCCC courses are organized under the same five arts areas. Note that beginning in 2019, the visual arts and media arts MCCC categories have been separated. For courses that count as arts credit to meet graduation requirements, note that academic standard and licensure requirements apply.
- c. Use the grade specific K-8 course codes in each arts area, including the Multi-Grade K-8 options, to define general K-8 arts courses. If the course is more specific then use the specific course classification codes that best describes the content. Example: A combined 4th and 5th grade general music course would use *05139 Music–Multi-Grade Levels K-8*. If the 4th and 5th grade course is specifically for band only then use the classification *05101 General Band*.

2. Theater

- a. Classify film study courses (focusing on responding to and analyzing film, rather than creation and production) in the visual and media arts area under *05203 Film Appreciation and Analysis* or *05174 IB Film Study*. Classify film study courses in the theater area under *05061 Film Study*. Classify film production courses in the visual and media arts under *05168 Media Art–Film/Video*. Film production course classifications are also listed in **11 Communication and Audio/Visual Technology**. (Note that if the course is offered for arts credit, licensure and standards requirements apply.)

3. Music

- a. Local courses such as the history of rock and roll and understanding Broadway musicals should be classified as *05116 Music History/Appreciation*, *05117 Music History* or *05118 Music Appreciation* depending upon course focus—both history and appreciation, or history or appreciation.
- b. Local bands, orchestras, and ensembles may have various grade level or instrumental configurations. All local courses, however, should be classified under the one orchestra classification (*05104*), the four band classifications (*05101*, *05102*, *05103*, *05126*), or another ensemble classification in the MCCC (*05105*, *05106*, *05121*). Additional documentation information will differentiate among the various local bands, orchestras and ensembles.

- c. Local chorus and vocal ensemble courses may have various grade levels and vocal configurations. All local courses, however, should be classified either as chorus (05110) or ensemble (05111, 05125). Additional documentation information will differentiate among the various local choruses and ensembles.

4. Visual Arts

- a. Beginning courses that introduce or advanced courses that refine student skills in several art forms should be classified as *05154 Visual Art–Comprehensive*. Local courses that emphasize the elements and principles of design in a variety of different art forms should also be classified as *05154 Visual Art–Comprehensive*.
- b. Courses which focus on moving images, such as video, film, animation, and multimedia art, are now categorized under Media Arts.
- c. Yearbook, newspaper, literary magazines (journalism or production) and photojournalism classifications are listed in **11 Communications & Audio/Visual Technology**. Appropriate classification depends upon the focus of the course.
- d. Advanced courses in visual arts that require significant independent work, including those typically identified locally as studio classes are often appropriately classified as *05170 Art Portfolio*.
- e. Floral design is listed in two classifications, *18052 General Horticulture* and *18056 Particular Topics in Plant Systems* in **18 Agriculture, Food and Natural Resources**. If the course focuses on floral design specifically, the most accurate classification is *18056 Particular Topics in Plant Systems*. The decision to award art credit for these courses is a local decision, and all state licensure and academic standards requirements must be met.
- f. Decorating with foods or food decoration, including cake decorating is most accurately classified as *16056 Culinary Art Specialty* in **16 Hospitality and Tourism**. The decision to award art credit for these courses is a local decision, and all state licensure and academic standards requirements must be met.

5. Media Arts

- a. Beginning in 2019, media arts courses have been added at the federal level and included for Minnesota. Visual arts and media arts have been separated at the state level in the MCCC.
- b. Media arts, media, and communication courses, depending on the focus, are listed in several different subject areas. The academic standards addressed (if any) and licensure area of the instructor may help classify the course accurately. In addition, courses that emphasize:
- c. Artistic endeavor, including the history, art and analysis of media arts and their role in society; creation of media art works; and/or the creation of multi-media art works, are listed in **05 Visual and Performing Arts**.
- d. Study and evaluation of media and their roles in society, print and broadcast journalism, and printing technology and production, including desktop publishing, are listed in **11 Communication and Audio/Visual Technology**.
- e. Use of technology, such as software programs for webpage design or other graphic design work, including interactive media products and services, are listed in **10 Computer and Information Sciences**.
- f. Classify film study courses (focusing on responding to and analyzing film, rather than creation and production) in the visual and media arts area under *05203 Film Appreciation and Analysis* or *05174 IB Film Study*. Classify film study courses in the theater area under *05061 Film Study*. Classify film production courses in the visual and media arts under *05168 Media Art–Film/Video*. Film production course classifications are also listed in **11 Communication and Audio/Visual Technology**. (Note that if the course is offered for arts credit, licensure and standards requirements apply.)

- g. Yearbook, newspaper, literary magazines (journalism or production) and photojournalism classifications are listed in **11 Communications & Audio/Visual Technology**.

III. Visual and Performing Arts course categories

Category	Code Range
A. Dance	05(001)–05(050)
B. Theater	05(051)–05(100)
C. Music	05(101)–05(150)
D. Visual	05(151)–05(200)
E. Media Arts	05(201)–05(300)
F. All Others	05(994)–05(999)

A. Dance

05018 General Dance

Courses in the classification explore dance content through the artistic processes of creating, performing, responding, and connecting. These courses may introduce dance history, culture, and vocabulary in the context of these processes. General Dance courses may also develop students' ability to move expressively, without an emphasis on particular dance forms or on developing specific dance techniques.

05001 Dance Survey

Courses in this classification provide students with experience in several dance forms such as modern, jazz, ballet, tap, West African, hip-hop, swing and others. Introductory courses often explore commonalities and uniqueness of different dance forms. This course includes instruction for responding to dance through analysis and interpretation.

05002 Dance Repertory

Courses in this classification provide an opportunity for students to learn about a choreographer's unique approaches to dance and choreography by studying and performing excerpts or complete works from a choreographer's repertoire. Dance repertory will train the dancers to capture the nuances and characteristics of the selected piece so that the artist's intent is fully expressed. These courses emphasize performance and typically require auditions.

05003 Dance Technique

Courses in this classification provide students with experience in one or more 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.

05004 Dance History and Appreciation

Courses in this classification help students develop an understanding of how dance serves different civilizations (recreational, social, cultural, theatrical, educational and liturgical, etc.) and expand their knowledge of and ability to critique dance as an art form. Students learn the history of dance (typically from a Western perspective), build an aesthetic point of view, and develop a dance vocabulary. Students view or experience a variety of dance forms, styles and choreographic approaches to provide a historical and aesthetic context.

05005 Composition/Choreography

Courses in this classification develop students' knowledge of choreographic principles and provide practice in how to apply them to the process of composing formal or informal dance.

05006 Social Dance

Courses in this classification teach students the steps, spatial formations and patterns, appropriate partner etiquette, and the relationship of the dance(s) to specific music or musical forms as well as historical or cultural contexts. These courses emphasize the distinct forms of partner or group dances and may include a variety of options, typically from Western cultural traditions (e.g., ballroom, square, folk, barn, contra, circle and line dances).

05007 IB Dance

Courses in this classification prepare students to take the International Baccalaureate (IB) Dance assessments. IB Dance courses help students develop skills in the composition, performance, and analysis of dance. These courses also help students form an historical and global awareness of dance forms and styles.

05008 Dance–Comprehensive

Courses in this classification provide students with experience in several dance forms, training to improve physical embodiment and styles in one or more dance forms and opportunities to study and perform excerpts or complete works from one or more choreographers' repertoires. Composition and choreography, critique and analysis, and dance history and appreciation are also typically included.

05009 Seminar/Project–Dance

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in dance. They may include college and/or career exploration. Students often design a project based on their interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

05010 Dance Improvisation

Courses in this classification help students develop an ability to respond kinesthetically in the moment, understand the elements of dance, relate to each other through movement, experiment with choreographic principles, explore rhythmic structures, and expand the boundaries of dance. These courses may emphasize the process of exploration, individual investigation and group work.

05011 World/Cultural Dance

Courses in this classification help students develop an understanding of authentic dances from other nations in the context of the people's history, culture, and customs. These courses may involve creating, performing and responding to dances of other cultures and/or time periods.

05012 Technical Theater for Dance

Courses in this classification teach students the basics of lighting, sound, makeup, costuming, stage management and other aspects of dance concert production. These courses may also include the practical application of skills.

05013 Dance for Musical Theater

Courses in this classification teach students how dance can be used in musical theater. Students learn the history of musical theater and types of dance that are typically used in musical theater including tap, jazz, ballet and contemporary dance forms.

05014 Ballet

Courses in this classification provide students with ongoing training in ballet and emphasize improving students' technique.

05015 Jazz Dance

Courses in this classification provide students with ongoing training in jazz dance and emphasize improving students' technique.

05016 Modern Dance

Courses in this classification provide students with ongoing training in modern dance and emphasize improving students' technique.

05017 Hip Hop

Courses in this classification provide students with ongoing training in hip hop and emphasize improving students' technique.

05018 Tap Dance

Courses in this classification provide students with ongoing training in tap dance and emphasize improving students' technique.

05030 Dance (Kindergarten)

Courses in this classification provide developmentally appropriate activities to create awareness of bodily movement and its potential for creativity, expression, and communication. Specific course content conforms to any existing state standards for kindergarten.

05031 Dance (Grade 1)

Courses in this classification typically provide activities that foster creative expression, communication through artistic endeavor, appreciation of culture and heritage, and evaluative and critical thinking using the art of dance. Activities may include those that enable students to develop their technique, learn different styles of dance, appreciate the culture and history of dance forms, and strengthen their critical abilities. Specific course content conforms to any existing state standards for grade one.

05032 Dance (Grade 2)

Courses in this classification typically provide activities that foster creative expression, communication through artistic endeavor, appreciation of culture and heritage, and evaluative and critical thinking using the art of dance. Activities may include those that enable students to develop their technique, learn different styles of dance, appreciate the culture and history of dance forms, and strengthen their critical abilities. Specific course content conforms to any existing state standards for grade two.

05033 Dance (Grade 3)

Courses in this classification typically provide activities that foster creative expression, communication through artistic endeavor, appreciation of culture and heritage, and evaluative and critical thinking using the art of dance. Activities may include those that enable students to develop their technique, learn different styles of dance, appreciate the culture and history of dance forms, and strengthen their critical abilities. Specific course content conforms to any existing state standards for grade three.

05034 Dance (Grade 4)

Courses in this classification typically provide activities that foster creative expression, communication through artistic endeavor, appreciation of culture and heritage, and evaluative and critical thinking using the art of dance. Activities may include those that enable students to develop their technique, learn different styles of dance, appreciate the culture and history of dance forms, and strengthen their critical abilities. Specific course content conforms to any existing state standards for grade four.

05035 Dance (Grade 5)

Courses in this classification typically provide activities that foster creative expression, communication through artistic endeavor, appreciation of culture and heritage, and evaluative and critical thinking using the art of dance. Activities may include those that enable students to develop their technique, learn different styles of dance, appreciate the culture and history of dance forms, and strengthen the ability to discern and critique. Specific course content conforms to any existing state standards for grade five.

05036 Dance (Grade 6)

Courses in this classification typically provide activities that foster creative expression, communication through artistic endeavor, appreciation of culture and heritage, and evaluative and critical thinking using the art of dance. Activities may include those that enable students to develop their technique, learn different styles of dance, appreciate the culture and history of dance forms, and strengthen the ability to discern and critique. Specific course content conforms to any existing state standards for grade six.

05037 Dance (Grade 7)

Courses in this classification typically provide activities that foster creative expression, communication through artistic endeavor, appreciation of culture and heritage, and evaluative and critical thinking using the art of dance. Activities may include those that enable students to develop their technique, learn different styles of dance, appreciate the culture and history of dance forms, and strengthen the ability to discern and critique. Specific course content conforms to any existing state standards for grade seven

05038 Dance (Grade 8)

Courses in this classification typically provide activities that foster creative expression, communication through artistic endeavor, appreciation of culture and heritage, and evaluative and critical thinking using the art of dance. Activities may include those that enable students to develop their technique, learn different styles of dance, appreciate the culture and history of dance forms, and strengthen the ability to discern and critique. Specific course content conforms to any existing state standards for grade eight.

05039 Dance—Multi-Grade Levels K-8

Courses in this classification are similar in content to the grade-specific courses (K-8) but apply to a range of consecutive grades, K-8 (e.g., 4th and 5th grade dance, combined 1st and 2nd grade dance, etc.)

05047 Dance—Workplace Experience

Courses in this classification provide students with professional experience in a field related to dance. Goals are typically set cooperatively by the student, teacher, and professional (students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the field. If this is work-based learning, licensure requirements apply.

05048 Dance–Independent Study

Courses in this classification, often conducted with instructors or professional artists as mentors, provide training in a specific area of emphasis (ballet, tap, jazz, modern, musical theater, world dance, etc.) or in the areas of choreography, production, criticism, etc. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular form or style, to explore a topic in greater detail, or to develop more advanced skills.

B. Theater

05052 Theater Arts

Courses in this classification focus on the study and performance of drama in its many forms, including musical theater, drama, and comedy. These courses review a wide range of scripted materials (such as plays, screenplays, teleplays, readers' theater scripts); dramatic criticism; techniques for creating original dramatic works; and the role of dramatic arts in society. Theater Arts courses typically require students to perform collaboratively, be involved in the critique of dramatic works, and learn methods for self-expression.

05053 Theater–Comprehensive

Courses in this classification help students experience and develop skills in one or more aspects of theatrical production. Introductory courses provide an overview of theatrical elements including acting, set design, stage management, directing, playwriting, and production. Advanced courses concentrate on extending and refining dramatic technique, expanding students' exposure to different types of theatrical styles, genres and traditions, and increasing their participation in public productions.

05055 Theater–Acting/Performance

Courses in this classification provide students with experience and skill development in one or more aspects of theatrical production, by concentrating on acting and performance skills. Introductory courses explore fundamental techniques, while advanced courses extend and refine technique, expand students' exposure to different types of theatrical craft and traditions from varied social and historical contexts, and increase their participation in public productions.

05056 Theater–Stagecraft

Courses in this classification develop students' skill in theatrical production, concentrating on lighting, costuming, props, puppets, sound, set construction, makeup, stage management and use of technology. Introductory courses explore basic concepts, while advanced courses concentrate on expanding and refining concepts, exploring different types of theatrical traditions and increasing students' chances of participating in public productions.

05057 Theater–Directing

Courses in this classification develop students' skills in translating scripts or devised material into productions. They support students in creating artistic visions through exposure to various theatrical techniques and traditions and provide students opportunities to direct the performances of others in scenes and/or full productions.

05058 Theater–Playwriting/Screenwriting

Courses in this classification help students understand and employ writing principles and techniques to create original scripts suitable for theater, film and/or television production. These courses explore the techniques of each genre and develop a personal voice, style and aesthetic by examining the work of various playwrights and screenwriters. Students may examine the creative writing craft, scene writing, script development, stage and/or camera instructions, line and moment analysis, script reading, script editing, and the creation of a production.

05059 History and Literature of the Theater

Courses in this classification explore in depth the structure, elements and style of dramatic compositions, and, as an extension, how dramatic literature influenced theatrical production and acting styles throughout history. These courses also examine how artistic works influence and are influenced by personal, societal, cultural, and historical contexts. Some courses may focus more on the literature component than on the theatre (with increased emphasis on critique and analysis), but most courses connect these subjects, exploring their interrelationship. Major contributors (i.e. playwrights, directors, designers) and the architecture of the theater may also be included as topics of study.

05060 IB Theater

Courses in this classification prepare students to take the International Baccalaureate (IB) Theatre exams. IB Theatre courses encourage students to examine the theory, history and culture of theatre. These courses also help students develop the organizational and technical skills to express themselves through scripted performance, workshops and independent project(s).

05061 Film Study

Courses in this classification vary widely. Some courses explore the length and breadth of film as a dramatic medium. Others focus on selected genres of film, various styles of filmmaking, important directors and may include historical merit and artistic intent. Some courses may use film to further students' comparative consideration of cultural perspectives and/or historical connections. Note: This is not a film production classification.

05062 Seminar/Project–Theater

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in theater. They may include college and/or career exploration. Students often design a project based on their interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

05063 Musical Theater

Courses in this classification provide students with the opportunity to explore and/or participate in various aspects of musical theater, including auditioning, singing, acting and dancing. These courses review the history and evolution of musical theatre, its literature and artists, and styles of composition and vocal presentation. Students work collaboratively on performances, including solo, duet and ensemble work.

05064 Theatrical Production and Management

Courses in this classification prepare students to manage the planning, design, preparation and production of plays and other theatrical performances. Course content may include instruction in theatrical design, program management, dramatic production, rehearsal management, personnel management and casting, actor coaching, directing concepts and techniques, stage management, dramaturgy, script interpretation, business management, marketing, public relations and communications skills.

05070 Drama (Kindergarten)

Courses in this classification provide developmentally appropriate activities to enable students to express themselves through dramatic play and storytelling. Specific course content conforms to any existing state standards for kindergarten.

05071 Drama (Grade 1)

Courses in this classification enable students to express themselves through dramatic play and storytelling. Course content typically includes the use of movement, language, character, plot, and spectacle to portray imaginary or real experiences. Specific course content conforms to any existing state standards for grade one.

05072 Drama (Grade 2)

Courses in this classification enable students to express themselves through dramatic play and storytelling. Course content typically includes the use of movement, language, character, plot and spectacle to portray imaginary or real experiences. Specific course content conforms to any existing state standards for grade two.

05073 Drama (Grade 3)

Courses in this classification enable students to express themselves through dramatic play and storytelling. Course content typically includes the use of movement, language, character, plot and spectacle to portray imaginary or real experiences. Specific course content conforms to any existing state standards for grade three.

05074 Drama (Grade 4)

Courses in this classification enable students to express themselves through dramatic play and storytelling. Course content typically includes the use of movement, language, character, plot and spectacle to portray imaginary or real experiences. Activities may include those that enable students to refine their technique, increase their artistic vocabulary, express themselves and their world view, and strengthen their critical abilities. Specific course content conforms to any existing state standards for grade four.

05075 Drama (Grade 5)

Courses in this classification enable students to express themselves through dramatic play and storytelling. Course content typically includes the use of movement, language, character, plot and spectacle to portray imaginary or real experiences. Activities may include those that enable students to refine their technique, increase their artistic vocabulary, express themselves and their world view, and strengthen their critical abilities. Specific course content conforms to any existing state standards for grade five.

05076 Drama (Grade 6)

Courses in this classification enable students to express themselves through dramatic play and storytelling. Course content typically includes the use of movement, language, character, plot and spectacle to portray imaginary or real experiences. Activities may include those that enable students to refine their technique, increase their artistic vocabulary, express themselves and their world view, and strengthen their critical abilities. Specific course content conforms to any existing state standards for grade six.

05077 Drama (Grade 7)

Courses in this classification enable students to express themselves through dramatic play and storytelling. Course content typically includes the use of movement, language, character, plot and spectacle to portray imaginary or real experiences. As appropriate, students may focus on acting techniques and traditions, other aspects of drama (staging, lighting, costuming), or both. Specific course content conforms to any existing state standards for grade seven.

05078 Drama (Grade 8)

Courses in this classification enable students to express themselves through dramatic play and storytelling. Course content typically includes the use of movement, language, character, plot, and spectacle to portray imaginary or real experiences. As appropriate, students may focus on acting techniques and traditions, other aspects of drama (staging, lighting, costuming), or both. Specific course content conforms to any existing state standards for grade eight.

05079 Drama–Multi-Grade Levels K-8

Courses in this classification are similar in content to the grade-specific courses (K-8) but apply to a range of consecutive grades, K-8 (e.g., 4th and 5th grade drama, combined 1st and 2nd grade drama, etc.)

05097 Theater–Workplace Experience

Courses in this classification provide professional experience in a field related to drama and the theater. Goals are typically set cooperatively by the student, teacher, and professional (students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the field. If this is work-based learning, licensure requirements apply.

05098 Theater–Independent Study

Courses in this classification, often conducted with instructors or professional artists as mentors, enable students to focus on a specific area of emphasis within the discipline. These courses enable students to independently explore one or more aspects of theater. Independent Study courses may serve as an opportunity for students to expand expertise in a particular theatrical genre or style, explore a topic in greater detail, or develop more advanced skills.

C. Music

05101 General Band

Courses in this classification develop techniques for playing brass, woodwind, and percussion instruments and their ability to perform a variety of concert band literature styles. These courses may emphasize rehearsal and performance experiences in a range of styles (e.g., concert, marching, orchestral and modern) and also include experiences in creating and responding to music.

05102 Concert Band

Courses in this classification 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 and also include experiences in creating and responding to music.

05103 Marching Band

Courses in this classification develop students' technique for playing brass, woodwind and percussion instruments and cover appropriate band literature styles, primarily for marching performances.

05104 Orchestra

Courses in this classification develop students' technique for playing string instruments and may include woodwind, brass and percussion instruments for full orchestra. These courses may emphasize collaboration through rehearsal and performance and also include experiences in creating and responding to music.

05105 Contemporary Instrumental Ensemble

Courses in this classification develop students' techniques for playing instruments, focusing primarily on contemporary music styles such as traditional jazz, jazz improvisation, rock and/or creating and performing student compositions. Vocals may be included.

05106 Small Ensemble

Courses in this classification help students perform a variety of musical styles (e.g., traditional chamber music, jazz and rock). At the same time, these courses help cultivate students' technique on instruments appropriate to the style(s) performed—brass, woodwind, string, percussion instruments, and/or electronic – and provide experiences in creating and responding to music. Courses typically range in size from 2 to 20 performers.

05107 Piano

Courses in this classification provide students an introduction to, and refine the fundamentals of, music and keyboard including literature and techniques such as scales, chords and melodic lines and may offer instruction in more advanced techniques. Formal and informal performances are typically included as well as experiences in creating and responding to music.

05108 Guitar

Courses in this classification provide students an introduction to, and refine the fundamentals of, music and guitar literature and techniques, such as strumming and chords and may offer instruction in more advanced techniques. These courses may include bass, ukulele and other plucked string instruments. Formal and informal performances are typically included as well as experiences in creating and responding to music.

05109 Individual Technique—Instrumental Music

Courses in this classification provide instruction in and encourage the refinement of instrumental techniques and literature. These courses may be conducted either individually or in a small group; formal and informal performances are typically included as well as experiences in creating and responding to music.

05110 Chorus

Courses in this classification develop students' vocal skills within the context of a large choral ensemble in which they perform a variety of styles of repertoire. These courses are designed to develop students' vocal techniques and their ability to sing parts and include experiences in creating and responding to music.

05111 Vocal Ensembles

Courses in this classification help students develop vocal techniques and refine their ability to sing parts in small ensembles (e.g., madrigal, barber shop, gospel). Course goals may include helping students develop their solo singing ability and emphasize one or several ensemble literature styles. These ensembles may include both instrumental and vocal music and include experiences in creating and responding to music.

05112 Individual Technique–Vocal Music

Courses in this classification provide instruction in and encourage the refinement of vocal techniques and repertoire other than the ability to sing in groups. These courses may be conducted individually or in small groups. Formal and informal performances may be part of the instructional program as well as experiences in creating and responding to music.

05113 Music Theory

Courses in this classification provide students with an understanding of the fundamentals of music and application through composition, arranging, analysis, aural development and sight reading.

05114 AP Music Theory

Courses in this classification develop understanding of musical structure and composition and are equivalent of a first-year music theory college course. They extend students' knowledge of intervals, scales, chords, metric/rhythmic patterns, and the ways they interact in a composition. Musical notation, analysis, composition, and aural skills are important components of the course.

05115 IB Music

Courses in this classification prepare students to take the International Baccalaureate Music exams. IB Music courses develop students' knowledge and understanding of music through study of musical perception, including study of musical elements, form and structure, notations, musical terminology and context. These courses include exploration of music from different places, cultures and time periods. They also involve training in at least one of the following: creating, solo performing and group performing.

05116 Music History/Appreciation

Courses in this classification survey different musical styles and periods with the intent of increasing students' understanding of music and its importance in relation to the human experience. Music History/Appreciation courses may focus on how various styles of music apply musical elements to create an expressive or aesthetic impact. Students also have the ability for informal music performance and creation within the classroom.

05117 Music History

Courses in this classification provide students with an understanding of music, its importance, and context in a selected range of historical periods and/or cultural styles. Students also have the ability for informal music performance and creation within the classroom.

05118 Music Appreciation

Courses in this classification provide students with an understanding of music and its importance in their lives. Course content focuses on how various styles of music apply musical elements to create an expressive or aesthetic impact. Students also have the ability for informal music performance and creation within the classroom.

05119 Composition/Songwriting

Courses in this classification prepare students to express themselves through creating music. These courses may use conventional or unconventional notation and may include instrumental and vocal music. Along with musical instruments and vocals, technology may be used for creating, recording and performing music. Students will also perform compositions formally or informally and respond to music created in the classroom.

05120 Music Theory/Music History

Courses in this classification are similar in nature to the individual courses in music theory and music history but combine the study of the fundamentals of music with the study of music history. These courses may also include other topics such as composition and analysis.

05121 Combined Band and Chorus

Courses in this classification provide students with the opportunity to participate in both vocal and instrumental programs. These courses generally offer a comprehensive study of music fundamentals and performance skills and include the use of a wide selection of music literature.

05122 Music and Technology

Courses in this classification vary widely in the types of technology used in composing, performing and/or recording music. While these courses concentrate on instrumental and/or vocal music creation and performance, there is an additional focus on exploration and use of computers, software and equipment such as Garage Band, mixing boards, digital recording, multi-track recorders, light equipment, video cameras and electronic instruments. Students may create musical projects such as original songs, music videos, websites and podcasts. Music theory, history and exploration of music technology careers may be included.

05123 Seminar/Project–Music

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in music. They may include college and/or career exploration. Students often design a project based on their interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

05124 Strings

Courses in this classification provide students an introduction to, and refine the fundamentals of, music and bowed-string instrument literature and techniques and may include more advanced techniques. These courses teach students the appropriate care, handling and maintenance of musical instruments. Formal and informal performances are included as part of string instrument instructional programs as well as experiences in creating and responding to music.

05125 Contemporary Vocal Ensemble

Courses in this classification help students develop vocal techniques while focusing primarily on contemporary stage literature styles, such as traditional jazz, jazz improvisation and rock. These courses may also focus on gospel, show choir or barbershop choral group dynamics. The ensembles provide performance opportunities and include experiences in creating and responding to music.

05126 Culturally Influenced Ensemble

Courses in this classification help students perform a variety of cultural music styles, such as Mariachi band, steel drum band, Indian gamelan or African drumming ensembles. At the same time, these courses help students develop techniques on instruments appropriate to the style(s) performed—brass, woodwind, string, percussion instruments, and/or electronic – and provide experiences in creating and responding to music. Courses emphasize instrumental music but may also include vocal music. Advanced coursework provides students with opportunities for growth through rehearsal and performance, improvisation, or creating and performing their own compositions.

05127 Recording and Production

Courses in this classification provide students with an opportunity to learn and apply skills in music recording techniques, music editing, mixing, and creating finished musical recordings for distribution as sound files in order to enhance, convey and capture the expressive intent of music.

05128 Technology/Electronic Music

Courses in this classification emphasize current technology as a means to create, record, mix and otherwise interact with music and music media. These courses focus on experimenting with electronic music technology as part of the process for creating music.

05130 Music (Kindergarten)

Courses in this classification provide developmentally appropriate activities to enable students to create and perform music, listen and respond to musical compositions, and incorporate their musical experiences with other activities and subjects. Specific course content conforms to any existing state standards for kindergarten.

05131 Music (Grade 1)

Courses in this classification provide activities to enable students to create and perform music, listen and respond to musical compositions, and incorporate their musical experiences with other activities and subjects. Course content usually involves understanding music as creative expression and communication, developing skill with the voice and/or musical instruments, understanding personal, societal, cultural, and historical influences on music, and establishing the ability to discern and critique. Specific course content conforms to existing state standards in music for grade one.

05132 Music (Grade 2)

Courses in this classification provide activities to enable students to create and perform music, listen and respond to musical compositions, and incorporate their musical experiences with other activities and subjects. Course content usually involves understanding music as creative expression and communication, developing skill with the voice and/or musical instruments, understanding personal, societal, cultural, and historical influences on music, and establishing the ability to discern and critique. Specific course content conforms to existing state standards in music for grade two.

05133 Music (Grade 3)

Courses in this classification provide activities to enable students to create and perform music, listen and respond to musical compositions, and incorporate their musical experiences with other activities and subjects. Course content usually involves understanding music as creative expression and communication, developing skill with the voice and/or musical instruments, understanding personal, societal, cultural, and historical influences on music, and establishing the ability to discern and critique. Specific course content conforms to existing state standards in music for grade three.

05134 Music (Grade 4)

Courses in this classification provide activities to enable students to create and perform music, listen and respond to musical compositions, and incorporate their musical experiences with other activities and subjects. Course content usually involves understanding music as creative expression and communication, developing skill with the voice and/or musical instruments, understanding personal, societal, cultural, and historical influences on music, and establishing the ability to discern and critique. Specific course content conforms to existing state standards in music for grade four.

05135 Music (Grade 5)

Courses in this classification provide activities to enable students to create and perform music, listen and respond to musical compositions, and incorporate their musical experiences with other activities and subjects. Course content usually involves understanding music as creative expression and communication, developing skill with the voice and/or musical instruments, understanding personal, societal, cultural, and historical influences on music, and establishing the ability to discern and critique. Specific course content conforms to existing state standards in music for grade five.

05136 Music (Grade 6)

Courses in this classification enable students to create and perform music, listen and respond to musical compositions, and incorporate their musical experiences with other activities and subjects. Course content usually involves understanding music as creative expression and communication, developing skill with the voice and/or musical instruments, understanding personal, societal, cultural, and historical influences on music, and refining the ability to discern and critique. Specific course content conforms to existing state standards in music for grade six.

05137 Music (Grade 7)

Courses in this classification enable students to create and perform music, listen and respond to musical compositions, and incorporate their musical experiences with other activities and subjects. Course content usually involves understanding music as creative expression and communication, developing skill with the voice and/or musical instruments, understanding personal, societal, cultural, and historical influences on music, and refining the ability to discern and critique. Specific course content conforms to existing state standards in music for grade seven.

05138 Music (Grade 8)

Courses in this classification enable students to create and perform music, listen and respond to musical compositions, and incorporate their musical experiences with other activities and subjects. Course content usually involves understanding music as creative expression and communication, developing skill with the voice and/or musical instruments, understanding personal, societal, cultural, and historical influences on music, and refining the ability to discern and critique. Specific course content conforms to existing state standards in music for grade eight.

05139 Music—Multi-Grade Levels K-8

Courses in this classification are similar in content to the grade-specific courses (K-8) but apply to a range of consecutive grades, K-8 (e.g., 4th and 5th grade art, combined 1st and 2nd grade art, etc.)

05147 Music–Workplace Experience

Courses in this classification provide students with professional experience in a field related to music. Goals are typically set cooperatively by the student, teacher, and professional (students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the field. If this is work-based learning, licensure requirements apply.

05148 Music–Independent Study

Courses in this classification, often conducted with instructors as mentors, enable students to explore topics of interest related to music. These courses may serve as an opportunity for students to expand their expertise, explore a topic in detail or develop advanced skills.

D. Visual Arts

05151 Art Appreciation

Courses in this classification introduce students to the historical study of and foundation for many forms of art. These courses help students form an aesthetic framework to examine social, political, and historical events in the world and how visual images/works of art express the ideas of individuals and society. Students are involved in the creative process through research and lecture, responding and dialogue, observation and interpretation with art works and artifacts.

05152 Art History

Courses in this classification introduce students to significant works of art, artists and artistic movements that have shaped the world and influenced or reflected various periods of history. These courses may emphasize the sequential evolution of art forms, techniques, symbols and themes. Art History courses also develop an understanding of art in relation to social, cultural, political and historical events throughout the world, while covering multiple artists, aesthetic issues and the evolution of art.

05153 AP Art History

Courses in this classification are designed to parallel college-level visual arts courses and provide the opportunity for students to critically examine and respond to works of art within their historical and cultural contexts. In studying the art and movements of several centuries (not necessarily in chronological order), students learn to identify different styles, techniques, media and influences. Students formulate and articulate their reactions to various kinds of artwork to understand and appreciate themselves, others and the world around them.

05154 Visual Art–Comprehensive

Courses in this classification enable students to explore one or several art forms (e.g., drawing, painting, two- and three-dimensional design, and sculpture) and to create individual works of art. Initial courses emphasize observations, interpretation of the visual environment, visual communication, imagination, and symbolism. Courses cover the language, materials, media and processes of a particular art form and the design elements used. Advanced courses encourage students to refine their skills while also developing their own artistic styles following and breaking from traditional conventions. Courses may also include the study of major artists, art movements, and styles.

Note: The focus of this comprehensive course classification is on visual art elements and principles of design applied to more than one art form. For classifications that focus on specific art forms and teach art elements and principles of design through those forms, use the course classifications below. These specific classifications may also include the additional topics cited in the comprehensive classification above.

05155 Visual Art–Drawing/Painting

Courses in this classification focus on the inter-relationships that occur between drawing and painting using a variety of media and techniques, emphasizing observation and interpretation of the visual environment. These courses typically include applying the elements of art and principles of design, along with a study of art and artists from a worldwide perspective, and instruction in the critique process. Advanced courses may encourage students to refine their creative process and develop their own artistic styles following and breaking from traditional conventions. These courses also provide instruction in the process of responding to art through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05156 Visual Art–Drawing

Courses in this classification provide a foundation in drawing using a variety of techniques and media (such as pen-and-ink, pencil, chalk, and so on) in both black and white and color, emphasizing observation and interpretation of the visual environment, life drawing, and imaginative drawing. These courses typically include applying the elements of art and principles of design, along with a study of art and artists from a worldwide perspective, and instruction in the critique process. Advanced courses may encourage students to refine their creative processes and develop their own artistic styles following and breaking from traditional conventions. These courses also provide instruction in the process of responding to art through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05157 Visual Art–Painting

Courses in this classification provide a foundation in painting using a variety of techniques and media (such as watercolor, tempera, oils, and acrylics), emphasizing observation and interpretation of the visual environment, life drawing and imaginative painting. These courses typically include applying the elements of art and principles of design, along with a study of art and artists from a worldwide perspective, and instruction in the critique process. Advanced courses may encourage students to refine their creative processes and develop their own artistic styles following and breaking from traditional conventions. These courses also provide instruction in the process of responding to art through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05158 Visual Art–Sculpture

Courses in this classification promote creative expression through three-dimensional works. These courses explore representational and abstract sculpture through subtractive (carving), additive (modeling) and assemblage techniques in one or more media. Visual Art–Sculpture courses typically include the production of representational and abstract sculptures while incorporating elements of art and principles of design, along with a study of historical and contemporary sculpture and sculptors from a worldwide perspective. These courses also provide instruction in the process of responding to art through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05159 Ceramics/Pottery

Courses in this classification engage students in learning experiences that include the historical and cultural context of ceramics, aesthetic inquiry and creative production. These courses provide knowledge of ceramic techniques (e.g., kiln firing and glazing) and processes with an emphasis on creative design and craftsmanship. Courses may include clay modeling, hand building, coil building, casting, and throwing on the potter’s wheel. These courses also provide instruction in the process of responding to art through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05161 Printmaking/Graphics

Courses in this classification emphasize applying the fundamental processes of artistic expression to both printmaking and visual communications design. These courses help students investigate printmaking media, techniques, and processes, in addition to providing instruction about the purposeful arrangement of images, symbols, and text to communicate a message. Courses in this classification also include a study of historical and contemporary printmaking and visual communications design and provide instruction in the critique process. These courses also provide instruction in the process of responding to art through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05162 Visual Communications Design

Courses in this classification emphasize applying fundamental processes of artistic expression through the exploration of the purposeful arrangement of images, symbols, and text to communicate a message. These courses may include investigations of how technology influences the creation of graphic and digital designs and study historical and contemporary visual communications design. These courses also provide instruction in the process of responding to their own art and that of others including master designers through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05163 Calligraphy/Lettering

Courses in this classification teach various styles of inscribing letters, design developments by means of lettering, the romance of lettering through the ages, and modern use of lettering in advertising and art. These courses present historical and contemporary examples of calligraphy, typography and lettering. Students engage in critiques and analysis of artists who practice these art forms, including professional calligraphers and typographers, and the relationship to the context in which they were created. These courses also provide instruction in the process of responding to art through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05164 Fibers and Textile Design

Courses in this classification emphasize applying the fundamental processes of artistic expression in creating textiles and fiber works using fiber and fiber-related media, techniques and processes. These courses may help students understand the suitability of design to materials and the artist's intent in creating textile works of art. Students may create their own work following and breaking from traditional conventions. They may also include the study of the history of fiber and textile art from a worldwide perspective. Students respond to their art and that of others including professional fiber artists through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05165 Crafts

Courses in this classification apply fundamental processes of artistic expression to the materials and accompanying aesthetics of crafts. Students may explore types of folk art and the materials and ways in which objects have been created for practical, religious, spiritual and cultural needs of people around the world. These courses may survey a wide range of crafts or may focus on only one type of craft; some possibilities include calligraphy, quilting, silk-screening, cake-decorating, tole-painting, mask-making, knitting, crocheting, paper-making, and so on. These courses may also explore aesthetic issues surrounding folk art and artists and engage in critiques of this authentic art form. These courses also provide instruction in the process of responding to art through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05166 Jewelry

Courses in this classification apply fundamental processes of artistic expression to the fabrication of small-scale objects and pieces of jewelry, and include the study of ornamental design, its media, techniques and processes. These courses typically help students develop expressive and technical skills in creating jewelry, using art metals, and exploring design concepts in form and surface decoration. Courses present an historical and contemporary view of using art metals and other elements in jewelry design and provide instruction in the critique process. Students participate in critiques of their jewelry and metal works, the jewelry and metal works of others, and those by professional jewelers and gemologists for the purpose of reflecting on and refining work for presentation. These courses also provide instruction in the process of responding to art through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05167 Photography

Courses in this classification provide students with an understanding of photographic media, techniques and processes. These courses focus on development of photographic compositions through manipulation of the fundamental processes of artistic expression. Students may learn to make meaningful visual statements with an emphasis on personal creative expression to communicate ideas, feelings or values. Photography courses may also include the history of photography, historic movements, image manipulation, critical analysis and some creative special effects. Students engage in critiques of their photographic images, the works of other students, and those by professional photographers for the purpose of reflecting on and refining work.

05170 Art Portfolio

Courses in this classification are designed to address a variety of factors and methods including evolving technologies when preparing and refining artwork for portfolio presentation and or when deciding if and how to preserve and protect art. Students will create, select, respond to, and present work that clearly reflects newly obtained technical skills, increasing conceptual thinking and is a reflection of their personal interests. These courses may include individual critiques and peer review. These courses also provide instruction in the process of responding to art through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05171 AP 2-D Art and Design

Courses in this classification are designed for students with a professional or academic interest in the art of drawing. These courses focus on a variety of concepts and approaches in drawing, enabling students to demonstrate a depth of knowledge of the processes, and a range of abilities, and versatility with media, technique, problem solving, and scope. They can demonstrate such conceptual variety through either the use of one or the use of several media. These courses enable students to refine their skills and create artistic works to submit via portfolio to the College Board for evaluation.

05172 AP 3-D Art and Design

Courses in this classification are designed for students with a professional or academic interest in three-dimensional art. These courses focus on a variety of concepts and approaches in 3-D design and creation, enabling students to demonstrate a range of abilities and versatility with media, technique, problem solving, and scope. They can demonstrate such conceptual variety through the use of one or several media. Students refine their skills and create artistic works to submit via portfolio to the College Board for evaluation.

05173 IB Visual Arts

Courses in this classification prepare students to take the International Baccalaureate (IB) Visual Arts exams. IB Visual Arts courses provide experiences that develop students' aesthetic and creative faculties, provide experiences in various visual art forms, offer training in awareness and criticism of art, and enable students to create their own quality works of art. Students perform both studio and research work; the research component is designed to investigate particular topics or concepts of interest in further detail. These courses were formerly known as IB Art/Design.

05175 Seminar/Project–Visual and Media Arts

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in visual arts. They may include college and/or career exploration. Students often design a project based on their interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

05176 AP Drawing

Courses in this classification are designed for students with a professional or academic interest in the art of drawing. These courses focus on a variety of concepts and approaches in drawing, enabling students to demonstrate a depth of knowledge of the processes, and a range of abilities, and versatility with media, technique, problem solving, and scope. They can demonstrate such conceptual variety through either the use of one or the use of several media. These courses enable students to refine their skills and create artistic works to submit via portfolio to the College Board for evaluation.

05177 Printmaking

Printmaking courses provide students with experience in a variety of traditional, non-traditional and digital printmaking media, techniques, and processes. These courses emphasize fundamental processes of artistic expression through the creation of realistic and abstract prints. Students learn and practice responding to their own art and that of others including master printmakers through analysis, critique, and interpretation for the purpose of reflecting on and refining work. These courses also provide instruction in the process of responding to art through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05178 Advertising Design

Courses in this classification emphasize applying the fundamental processes of artistic expression used in the fields of advertising and commercial art for the purpose of visual communication. These courses offer practical experiences in generating advertisements, commercial art, logos, executing layouts, illustrations, displays, lettering, and works with a variety of media, techniques and processes. They also include preparing artwork for reproduction and presentation. Advertising Design courses present an historical and contemporary view of advertising art and commercial art. Students learn and practice responding to their own art and that of others including professional designers through analysis, critique, and interpretation for the purpose of reflecting on and refining work.

05180 Art (Kindergarten)

Courses in this classification provide activities to enable students to create, refine, and share original art, as well as analyze, respond to, and evaluate a variety of artworks. Specific course content conforms to existing state standards in visual arts for kindergarten.

05181 Art (Grade 1)

Courses in this classification provide activities to enable students to create, refine, and share original art, as well as analyze, respond to, and evaluate a variety of artworks. Activities may include those that enable students to refine their technique, increase their artistic vocabulary, understand personal, societal, cultural, and historical influences on artworks, and strengthen their critical abilities. Specific course content conforms to existing state standards in visual arts for grade one.

05182 Art (Grade 2)

Courses in this classification provide activities to enable students to create, refine, and share original art, as well as analyze, respond to, and evaluate a variety of artworks. Activities may include those that enable students to refine their technique, increase their artistic vocabulary, understand personal, societal, cultural, and historical influences on artworks, and strengthen their critical abilities. Specific course content conforms to existing state standards in visual arts for grade two.

05183 Art (Grade 3)

Courses in this classification provide activities to enable students to create, refine, and share original art, as well as analyze, respond to, and evaluate a variety of artworks. Activities may include those that enable students to refine their technique, increase their artistic vocabulary, understand personal, societal, cultural, and historical influences on artworks, and strengthen their critical abilities. Specific course content conforms to existing state standards in visual arts for grade three.

05184 Art (Grade 4)

Courses in this classification provide activities to enable students to create, refine, and share original art, as well as analyze, respond to, and evaluate a variety of artworks. Activities may include those that enable students to refine their technique, increase their artistic vocabulary, express themselves and their world view, understand personal, societal, cultural, and historical influences on artworks, develop their own aesthetic, and strengthen their critical abilities. Specific course content conforms to existing state standards in visual arts for grade four.

05185 Art (Grade 5)

Courses in this classification provide activities to enable students to create, refine, and share original art, as well as analyze, respond to, and evaluate a variety of artworks. Activities may include those that enable students to refine their technique, increase their artistic vocabulary, express themselves and their world view, understand personal, societal, cultural, and historical influences on artworks,, develop their own aesthetic, and strengthen their critical abilities. Specific course content conforms to existing state standards in visual arts for grade five.

05186 Art (Grade 6)

Courses in this classification provide activities to enable students to create, refine, and share original art, as well as analyze, respond to, and evaluate a variety of artworks.. Activities may include those that enable students to refine their technique, increase their artistic vocabulary, express themselves and their world view, understand personal, societal, cultural, and historical influences on artworks, develop their own aesthetic, and strengthen their critical abilities. Specific course content conforms to existing state standards in visual arts for grade six.

05187 Art (Grade 7)

Courses in this classification provide activities to enable students to create, refine, and share original art, as well as analyze, respond to, and evaluate a variety of artworks. Activities may include those that enable students to refine their technique, increase their artistic vocabulary, express themselves and their world view, understand personal, societal, cultural, and historical influences on artworks, , develop their own aesthetic, and strengthen their critical abilities. Specific course content conforms to existing state standards in visual arts for grade seven.

05188 Art (Grade 8)

Courses in this classification provide activities to enable students to create, refine, and share original art, as well as analyze, respond to, and evaluate a variety of artworks. Activities may include those that enable students to refine their technique, increase their artistic vocabulary, express themselves and their world view, understand personal, societal, cultural, and historical influences on artworks, develop their own aesthetic, and strengthen their critical abilities. Specific course content conforms to existing state standards in visual arts for grade eight.

05189 Art–Multi-Grade Levels K-8

Courses in this classification are similar in content to the grade-specific courses (K-8) but apply to a range of consecutive grades, K-8 (e.g., 4th and 5th grade art, combined 1st and 2nd grade art, etc.)

05191 Industrial Design

Courses in this classification emphasize applying the fundamental processes of artistic expression to designing manufactured products. Students analyze and apply a variety of media, techniques, and processes to improve the aesthetics, ergonomics, functionality, and/or usability of a product. Courses may also include an understanding of aesthetic issues associated with product design. Students study industrial designs throughout history, contemporary society, and many world cultures. Students engage in critique of their industrial designs, the designs of others, and designs by professional industrial designers for the purpose of reflecting on and refining work for presentation.

05192 Architectural Design

Courses in this classification emphasize applying the fundamental processes of artistic expression to designing buildings, open areas, communities, and environments with an aesthetic effect. Students analyze and apply a variety of media, techniques, and processes to create architectural structures that incorporate aesthetics, functionality, and usability. Architectural Design courses may also include an understanding of aesthetic issues associated with designing such structures. Students study architectural designs throughout history, contemporary society, and many world cultures. Students engage in critique of their architectural designs, the designs of others, and designs by professional architects for the purpose of reflecting on and refining work for presentation.

05193 Interior Design

Courses in this classification emphasize applying the fundamental processes of artistic expression to design an interior living or working space. Students analyze and apply a variety of media, techniques, and processes in their interior design work. Courses may also include an understanding of aesthetic issues associated with interior design. Students study the art or process of designing the interior of a room or building and focus on enhancing the interiors of a space to achieve a healthy and more aesthetically pleasing environment. Students will study interior designs from historical, contemporary, and world cultures. Students engage in critique of their interior designs, the designs of others, and designs by professional interior designers for the purpose of reflecting on and refining work for presentation.

05195 Fundamentals of Design

Courses in this classification provide an introduction to and help students respond to the function of fundamental processes of artistic expression in two- and three-dimensional designs. Students apply the concepts and approaches in the symbolic aspects of art and design to two- and three-dimensional problems so that they demonstrate a range of abilities and versatility with technique, problem-solving, and ideation. Students study, analyze, and respond to the function of fundamental processes of artistic expression in their work. These courses also provide instruction in the process of responding to art through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05197 Visual Arts–Workplace Experience

Courses in this classification provide students with professional experience in a field related to visual arts. Goals are typically set cooperatively by the student, teacher, and professional (students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the field. If this is work-based learning, licensure requirements apply.

05198 Visual Arts–Independent Study

Courses in this classification, often conducted with instructors or professional artists as mentors, enable students to independently explore work within a specific art medium, concept, or idea through in-depth examination. Independent Study courses may serve as an opportunity for students to expand their expertise in a specific medium and style, to explore a topic in greater detail, or to develop more advanced skills. These courses also provide instruction in the process of responding to art through analysis, critique and interpretation for the purpose of reflecting on and refining work.

E. Media Arts

05174 IB Film

Courses in this classification prepare students to take the International Baccalaureate Film exams. IB Film courses develop students' understanding and appreciation of the craft of film through the construction and deconstruction of film text. Course content includes textual analysis of film sequences, film theory and history, and the creative process of producing films.

05203 Film Appreciation and Analysis

Courses in this classification help students understand the critical historical and stylistic elements of cinema. These courses help students form an aesthetic framework to examine social, political, and historical events in the world and to understand how moving images express the ideas of individuals and society. Course content may include analysis, discussion, and evaluation of multiple film styles including, but not limited to, documentary, short film, drama, horror, and comedy.

05250 Media Arts–Comprehensive

Courses in this classification introduce students to the creative and conceptual aspects of designing media arts experiences and products, including techniques, genres and styles from various mediums and forms, such as moving image, sound, interactive, spatial and/or interactive design. Topics may include aesthetic meaning, appreciation and analysis; composing, capturing, processing and programming of media arts products, experiences and communications; transmission, distribution and marketing; and contextual, cultural, and historical aspects and considerations. These courses also provide instruction in the process of responding to media arts through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05251 Digital Imaging

Courses in this classification explore the creative and conceptual aspects of designing and producing digital imagery, graphics, and photography. Students study the techniques, genres, and styles from multiple mediums and forms. Topics may include aesthetic meaning, appreciation and analysis; composing, capturing, processing, and programming of imagery and graphical information; their transmission, distribution, and marketing; and contextual, cultural and historical aspects and considerations. These courses also provide instruction in the process of responding to media arts through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05252 Interactive Design

Courses in this classification explore the creative, technical, and conceptual aspects of designing and producing interactive media arts experiences, products, and services, including reactive (sensory-based devices) and interactive technologies, 3D game mechanics, interface design, mobile device applications, social media-based and web multimedia, physical spaces, augmented reality, and/or virtual reality. Topics may include aesthetic meaning; artistic, design and technical methods and practices; story and audience engagement; analysis and media literacy; construction, development, processing, modeling, simulation, and programming of interactive experiences; their transmission, distribution, placement and marketing; and contextual, cultural, and historical aspects and considerations. These courses also provide instruction in the process of responding to interactive design through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05253 Interactive Game Design

Courses in this classification explore the creative, technical, and conceptual aspects of designing and producing interactive game experiences and products, including reactive (sensory-based devices) and interactive technologies, 3D game mechanics, interface design, games for mobile device applications, social media and web multimedia, and/or augmented and virtual reality games. Topics may include aesthetic meaning; artistic, design and technical methods and practices; game construction and development, game theory and dynamics; analysis and media literacy; construction, development, processing, modeling, and programming of game-based experiences; their transmission, distribution, placement and marketing; and contextual, cultural and historical aspects and considerations. These courses also provide instruction in the process of responding to game design through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05254 Web Design

Courses in this classification explore the creative and conceptual aspects of designing and developing interactive, multimedia websites that emphasize the principles of graphic design, interactivity, and usability. Students learn about a variety of visual, navigational, and structural approaches to navigation systems, visual hierarchy, basic animations, image preparation and file transferring protocols. Topics may include conceptual development and structure, interactivity, and design aesthetics; appreciation and analysis development, construction, and programming of virtual, multimedia, and interactive experiences; their applications in internet communications; and contextual, cultural, and historical aspects and considerations. These courses also provide instruction in the process of responding to web design through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05255 Moving Image

Courses in this classification explore the creative and conceptual aspects of designing and producing moving images for cinematic, film/video, animation, and multimedia presentations, such as documentaries, music videos, and performance media. Topics may include aesthetic meaning, appreciation and analysis of moving imagery; all processes of development including pre-production planning and organization, production and post-production methods, tools, and processes; moving image presentation; transmission, distribution, and marketing; and contextual, cultural, and historical aspects and considerations. These courses also provide instruction in the process of responding to media arts through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05256 Moving Image–Animation

Courses in this classification explore the creative and conceptual aspects of designing and producing animated images for storytelling and multimedia presentations including dramatic narratives; artistic and experimental presentations and installations; and ambient, interactive, immersive and performance media. Students investigate interactive use of drawing and design fundamentals, storyboarding, composition and imaging, audio and sound creation, editing choices, and processes necessary for animation development. Topics may include motion graphics; compositing and visual effects; 2D and 3D animation; timing and spacing; aspect ratio; video editing; animation physics and expressions; pre- and post-production methods, tools and processes; animation presentation, transmission, distribution, and marketing; and contextual, cultural, and historical aspects and considerations. These courses also provide instruction in the process of responding to media arts through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05257 Digital Sound Design

Courses in this classification explore the creative and conceptual aspects of designing and producing sound for a variety of multimedia and popular musical forms, including artistic and experimental presentations and/or installations; soundtracks for moving image; and interactive, immersive and performance media. Topics may include aesthetic meaning, appreciation and analysis of sound and music; processes of development; and contextual, cultural, and historical aspects and considerations. These courses also provide instruction in the process of responding to media arts through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05258 Virtual Design

Courses in this classification explore the creative and conceptual aspects of designing and producing simulative, virtual, and 3D media arts experiences, products, and services, including environments, structures, objects, architecture and ecologies, virtual, and augmented reality. Topics may include aesthetic meaning, appreciation and analysis; construction, development, processing, modeling, simulation and programming of experiences, structures, architecture and/or environments; presentation, transmission, distribution, and marketing; and contextual, cultural, and historical aspects and considerations. These courses also provide instruction in the process of responding to virtual design through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05259 Media for Performance

Courses in this classification explore the creative and conceptual aspects of designing and producing media for performing, informational, and entertainment arts presentations and experiences including dance, music, theatre, opera, performance art, political, and sports and entertainment events. Topics may include aesthetic meaning, appreciation and analysis of live performance and integrated media; processes of development; and contextual, cultural, and historical aspects and considerations. These courses also provide instruction in the process of responding to media arts through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05260 Multimedia Design

Courses in this classification explore the creative and conceptual aspects of designing and producing media arts experiences, products, and services that combine imagery, text, sound, motion, interactivity and/or virtual media into a unified presentation. Topics may include aesthetic meaning, appreciation and analysis; composition, development, processing and programming of combined physical, interactive, and virtual experiences and environments; presentation, transmission, distribution, and marketing; and contextual, cultural, and historical aspects and considerations. These courses also provide instruction in the process of responding to multimedia design through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05261 Intermedia Design

Courses in this classification explore the creative and conceptual aspects of designing and producing interdisciplinary media arts, intermedia and/or transmedia, that merges media in diverse combinations and emerging hybrids. Topics may include aesthetic meaning, appreciation and analysis; construction, development, processing, modeling, simulation, and programming of blended physical, interactive, multimedia, and virtual experiences and/or environments across arts forms, platforms, media, and technologies; presentation, transmission, distribution and marketing; and contextual, cultural, and historical aspects/considerations. These courses also provide instruction in the process of responding to intermedia design through analysis, critique and interpretation for the purpose of reflecting on and refining work.

05262 Media Arts Theory

Courses in this classification instruct students on the conceptual, social, and philosophical aspects of the variety, purposes, and nature of media arts. Topics may include aesthetic meaning; appreciation and analysis of the range of media art experiences, styles, genres, and forms; limited experience in its production tools, methods, and processes; and the role of media technologies in society.

05263 Media Literacy

Courses in this classification provide a history of the media, including advertising and persuasive techniques, and study propaganda. Students learn how contemporary and historical images are used to make art, sell products, motivate populations, and alter opinions. Topics may include debates surrounding television, the internet, and other sources for media, and exploring alternatives to the mainstream media.

05280 Media Arts (Kindergarten)

Media arts is the study and practice of human communication through cinematic arts (film/video), animation, imaging, sound design, virtual design, interactive design, as well as multimedia and intermedia. Students exploring this category of art creatively structure the elements of space, time, light, motion, color and sound to express their perspectives, feelings and ideas. Courses in this classification provide activities to enable students to create, refine, and share media artworks, analyze, respond to, and evaluate media artworks, and incorporate their media arts experiences with other activities and subjects. Specific course content conforms to existing state standards in media arts for kindergarten.

05281 Media Arts (Grade 1)

Media arts is the study and practice of human communication through cinematic arts (film/video), animation, imaging, sound design, virtual design, interactive design, as well as multimedia and intermedia. Students exploring this category of art creatively structure the elements of space, time, light, motion, color and sound to express their perspectives, feelings and ideas. Courses in this classification provide activities to enable students to create, refine, and share media artworks, as well as analyze, respond to, and evaluate media artworks. Activities include those that enable students to refine their technique, increase their artistic vocabulary, understand personal, societal, cultural, and historical influences on media artworks, and strengthen their critical abilities. Specific course content conforms to existing state standards in media arts for grade one.

05282 Media Arts (Grade 2)

Media arts is the study and practice of human communication through cinematic arts (film/video), animation, imaging, sound design, virtual design, interactive design, as well as multimedia and intermedia. Students exploring this category of art creatively structure the elements of space, time, light, motion, color and sound to express their perspectives, feelings and ideas. Courses in this classification provide activities to enable students to create, refine, and share media artworks, as well as analyze, respond to, and evaluate media artworks. Activities include those that enable students to refine their technique, increase their artistic vocabulary, understand personal, societal, cultural, and historical influences on media artworks, and strengthen their critical abilities. Specific course content conforms to existing state standards in media arts for grade two.

05283 Media Arts (Grade 3)

Media arts is the study and practice of human communication through cinematic arts (film/video), animation, imaging, sound design, virtual design, interactive design, as well as multimedia and intermedia. Students exploring this category of art creatively structure the elements of space, time, light, motion, color and sound to express their perspectives, feelings and ideas. Courses in this classification provide activities to enable students to create, refine, and share media artworks, as well as analyze, respond to, and evaluate media artworks. Activities include those that enable students to refine their technique, increase their artistic vocabulary, understand personal, societal, cultural, and historical influences on media artworks, and strengthen their critical abilities. Specific course content conforms to existing state standards in media arts for grade three.

05284 Media Arts (Grade 4)

Media arts is the study and practice of human communication through cinematic arts (film/video), animation, imaging, sound design, virtual design, interactive design, as well as multimedia and intermedia. Students exploring this category of art creatively structure the elements of space, time, light, motion, color and sound to express their perspectives, feelings and ideas. Courses in this classification provide activities to enable students to create, refine, and share media artworks, as well as analyze, respond to, and evaluate media artworks. Activities include those that enable students to refine their technique, increase their artistic vocabulary, express themselves and their world view, understand personal, societal, cultural, and historical influences on media artworks, develop their own aesthetic, and strengthen their critical abilities. Specific course content conforms to existing state standards in media arts for grade four.

05285 Media Arts (Grade 5)

Media arts is the study and practice of human communication through cinematic arts (film/video), animation, imaging, sound design, virtual design, interactive design, as well as multimedia and intermedia. Students exploring this category of art creatively structure the elements of space, time, light, motion, color and sound to express their perspectives, feelings and ideas. Courses in this classification provide activities to enable students to create, refine, and share media artworks, as well as analyze, respond to, and evaluate media artworks. Activities include those that enable students to refine their technique, increase their artistic vocabulary, express themselves and their world view, understand personal, societal, cultural, and historical influences on media artworks, develop their own aesthetic, and strengthen their critical abilities. Specific course content conforms to existing state standards in media arts for grade five.

05286 Media Arts (Grade 6)

Media arts is the study and practice of human communication through cinematic arts (film/video), animation, imaging, sound design, virtual design, interactive design, as well as multimedia and intermedia. Students exploring this category of art creatively structure the elements of space, time, light, motion, color and sound to express their perspectives, feelings and ideas. Courses in this classification provide activities to enable students to create, refine, and share media artworks, as well as analyze, respond to, and evaluate media artworks. Activities include those that enable students to refine their technique, increase their artistic vocabulary, express themselves and their world view, understand personal, societal, cultural, and historical influences on media artworks, develop their own aesthetic, and strengthen their critical abilities. Specific course content conforms to existing state standards in media arts for grade six.

05287 Media Arts (Grade 7)

Media arts is the study and practice of human communication through cinematic arts (film/video), animation, imaging, sound design, virtual design, interactive design, as well as multimedia and intermedia. Students exploring this category of art creatively structure the elements of space, time, light, motion, color and sound to express their perspectives, feelings and ideas. Courses in this classification provide activities to enable students to create, refine, and share media artworks, as well as analyze, respond to, and evaluate media artworks. Activities include those that enable students to refine their technique, increase their artistic vocabulary, express themselves and their world view, understand personal, societal, cultural, and historical influences on media artworks, develop their own aesthetic, and strengthen their critical abilities. Specific course content conforms to existing state standards in media arts for grade seven.

05288 Media Arts (Grade 8)

Media arts is the study and practice of human communication through cinematic arts (film/video), animation, imaging, sound design, virtual design, interactive design, as well as multimedia and intermedia. Students exploring this category of art creatively structure the elements of space, time, light, motion, color and sound to express their perspectives, feelings and ideas. Courses in this classification provide activities to enable students to create, refine, and share media artworks, as well as analyze, respond to, and evaluate media artworks. Activities include those that enable students to refine their technique, increase their artistic vocabulary, express themselves and their world view, understand personal, societal, cultural, and historical influences on media artworks, develop their own aesthetic, and strengthen their critical abilities. Specific course content conforms to existing state standards in media arts for grade eight.

05289 Media Arts–Multi-Grade Levels K-8

Courses in this classification are similar in content to the grade-specific courses (K-8) but apply to a range of consecutive grades, K-8 (e.g., 4th and 5th grade media arts, combined 1st and 2nd grade media arts etc.)

05297 Media Arts–Independent Study

Courses in this classification enable students to explore a particular art form or topic. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular form or style, to explore a topic in greater detail, or to develop more advanced skills.

05298 Media Arts–Workplace Experience

Courses in this classification provide students with professional experience in a field related to media arts. Goals are typically set cooperatively by the student, teacher, and professional (students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the field. If this is work-based learning, licensure requirements apply.

F. All Others

05991 IB Arts, Middle Years Program

Courses in this classification include visual and performing arts and organize learning around the creative cycle. These courses bring students into contact with art forms and aesthetic values of several cultures and help students master artistic techniques. Use this classification only in official IB sites.

05994 Interdisciplinary Arts

Courses in this classification explore communication across the arts disciplines: any subset or all of the visual arts, music, drama, theater, dance, and literature may be addressed in the curriculum for these courses. Students 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 theater and visual arts of a particular time period and culture).

05995 Fine and Performing Art–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

Subject Area Code 07: Religious Education and Theology

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) classifications are written to describe all grades in the K-12 grade-level span, unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

III. Religious Education and Theology course categories

Category	Code Range
A. General Religious Studies	07(001)–07(050)
B. Specialized Courses	07(051)–07(100)
C. Others	07(995)–07(999)

A. General Religious Studies

07001 Religious Foundations

Courses in this classification include instruction in the history, tenets and organization of a religion 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 and the church calendar.

07002 Comparative Religions

Courses in this classification survey and compare the various forms and values of several world religions, offering students a basic understanding of the world's diverse religious faiths and practices. Topics typically include the belief systems of adherents; the relationships among humans, nature, ancestors, and the spiritual world; and the historical development of each religion.

07003 Eastern Religions

Courses in this classification are similar to Comparative Religion and provide students with an overview of various religions and belief systems but focus on those of the Eastern World. Particular religious or philosophical systems of study usually include Buddhism, Hinduism, Islam, Taoism, Shintoism, and Confucianism, among others.

07004 Western Religions

Courses in this classification are similar to Comparative Religion and provide students with an overview of various religions and belief systems but focus on those of the Western World. Particular religious or philosophical systems of study usually include Judaism; Christianity, including various faiths such as those of Catholics, Episcopalians, Baptists, Quakers, Mormons, and Mennonites; and Native Indian belief systems, among others.

07005 Scriptures

Courses in this classification emphasize understanding and interpreting the sacred writings of a faith, such as the Bible, Torah, Koran, and Book of Mormon. Courses are designed so that students may comprehend the theological, doctrinal, and ethical messages contained within religious scriptures.

07006 Old Testament

Courses in this classification emphasize understanding and interpreting the sacred writings of the Old Testament and may focus on one or several books. Courses typically focus on themes, theological concepts, and portrayal of ethical messages, and may include critique and commentary.

07007 New Testament

Courses in this classification emphasize understanding and interpreting the sacred writings of the New Testament and may focus on one or several religious books. Courses typically focus on themes, theological concepts, and portrayal of ethical messages, and may include critique and commentary.

07008 Bible History

Courses in this classification 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.

07009 Religious Ethics and Morality

Courses in this classification introduce or examine the tenets of a particular faith and seek to enable students to apply the moral teachings of a faith to their own lives, to the larger community, and to their decision-making processes. Course content may focus on such issues as peace and justice, death and dying, human sexuality, professional ethics, and human rights.

07010 Justice, Peace, and Faith

Courses in this classification examine the scriptural foundations for justice, typically with a historical overview of a faith's social teaching. These courses include topics such as poverty, hunger, conflict, discrimination, justice, and environmental issues, with a view toward developing students' ability to critically reflect upon and analyze their own roles and responsibilities.

07011 Faith and Lifestyle

Courses in this classification focus on the development of young adults, approached from the perspective of a faith. In these courses, the religion's values and traditions provide an underpinning for examining such topics as identity, independence, sexuality, employment, and leisure. Typically, these courses include discussions about adult roles – single life, marriage, religious life, and ordained ministry.

07012 IB World Religions

Courses in this classification prepare students to take the International Baccalaureate exam. These courses are designed to provide students with the means to study the beliefs and practices of nine main religions of the world. These courses may include an in-depth study of several religions with an emphasis on thematic elements. An investigative study of the religious experience is also included.

07013 Prayer and Spirituality

Courses in this classification vary widely, but seek to enable students to experience deeper communion with the divine through public and private worship. Course content may include an examination or exploration of traditional and contemporary practices.

07014 Religious Ethics and Morality

Courses in this classification usually including an introduction to or examination of the tenets of a particular faith. Religious Ethics and Morality courses seek to enable students to apply the moral teachings of a faith to their own lives, to the larger community, and to their decision-making processes. Course content may focus on such issues as peace and justice, death and dying, human sexuality, professional ethics, and human rights.

07015 Particular Topics in Religion

Courses in this classification focus on a specific topic within the field of religion (such as religious identity or the investigation of a particular figure) not otherwise described in this classification system.

B. Specialized Courses

07051 Christology

Courses in this classification concern the work and life of Jesus Christ and the literature related to him. Content is typically based on Christian scriptures, leading to an examination of the message of Jesus Christ and applying His message to daily life.

07052 Religious Figures

Courses in this classification offer the opportunity to examine the lives and messages of one or more people central to a religious faith, such as a prophet, apostle, or philosopher. In addition to a historical study of the person(s), these courses typically emphasize how these individuals influence a religious group.

07053 Liturgy and Prayer

Courses in this classification vary widely, usually depending upon the religion, but generally seek to inform students about the meaning and message of public and private worship. Content typically includes an examination or exploration of common rituals, spoken or sung prayers, and observed sacraments.

07055 Ministry

Courses in this classification introduce the vocation of service. Students may learn counseling skills, plan and participate in religious services, and minister to younger students or to members of the local community by assisting in hospitals and convalescent homes, crisis centers and soup kitchens.

C. Others

07995 Religious Education and Theology–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

07996 Seminar/Project–Religious Education and Theology

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in religious education and theology. They may include college and/or career exploration and planning. Students often design a project based on an area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

07997 Religious Education and Theology–Independent Study

Courses in this classification, often conducted with members of the clergy or religious leaders as mentors enable students to explore interests related to religion. These courses may serve as an opportunity for students to expand their expertise, to explore a topic in detail or to develop advanced skills.

07999 Religious Education and Theology–Other

(Provide local course description.)

Subject Area 08: Physical, Health and Safety Education

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) classifications are written to describe all grades in the K-12 grade-level span, unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. Dance course classifications are listed in **05 Visual and Performing Arts**.
2. Course classifications that focus on health care careers and the health care industry are listed in 14 Health Care Sciences.
3. There are two classifications for health courses for English language learners in this subject area:
 - a. *08059 Bilingual Health Education* for courses taught in more than one language by instructors who are proficient in the languages of instruction and licensed in the content area.
 - b. *08060 English as a Second Language (ESL)–Transitional Health Education* used when the course is taught by a content licensed instructor who has training and experience in integrating content and language instruction while providing scaffolds that make instruction and assessment accessible for students with English learner status.
 - c. Additional ESL health course classifications are listed in **23 Academic and Career Development, Category F. English Language Development**. Used when taught by an ESL licensed instructor for courses that are primarily designed to meet the English language development needs of students with English learner status. These courses often address the language demands of specific content areas, but they are language courses, not content courses.
4. Local lifeguard training courses, which may include American Red Cross certification, are most appropriately classified under *08010 Aquatic/Water Sports*.

III. Physical, Health and Safety Education course categories

Category	Code Range
A. Physical Education	08(001)–08(050)
B. Health Education	08(051)–08(100)
C. Drivers' Education	08(151)–08(200)
D. All Others	08(990)–08(999)

A. Physical Education

08001 Physical Education

Courses in this classification provide knowledge, experience and 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.

08002 Team Sports

Courses in this classification provide knowledge, experience and opportunity to develop skills in more than one sport, such as volleyball, basketball, soccer or other team sports.

08003 Individual/Dual Sports

Courses in this classification provide knowledge, experience and opportunity to develop skills in more than one sport, such as tennis, golf, badminton, jogging/running, racquetball or other individual or dual sports.

08004 Recreation Sports

Courses in this classification provide knowledge, experience and opportunity to develop skills in more than one activity such as, croquet, Frisbee, wall climbing, bocce ball, fishing, hiking, cycling or other recreational sport or outdoor pursuit.

08005 Fitness/Conditioning Activities

Courses in this classification emphasize conditioning activities that help develop muscular strength, flexibility and cardiovascular fitness.

08006 Corps Movement

Courses in this classification emphasize physical conditioning, fundamentals of movement, group precision and public performance for members of teams, such as flag corps, rifle corps or cheerleading squads.

08007 Adapted Physical Education

Courses provide physical education activities, such as sports, fitness and conditioning adapted for students with special needs. Example would be for DAPE program for Adapted Physical Education.

08008 Gymnastics

Courses in this classification develop knowledge and skills in gymnastics and tumbling. Floor gymnastics may include equipment such as balance beam, uneven bars, parallel bars and rings. Courses may include other components such as conditioning.

08009 Weight Training

Courses in this classification develop knowledge and skills with free weights and universal stations while emphasizing safety and proper body positioning; they may include anatomy and conditioning.

08010 Aquatic/Water Sports

Courses in this classification focus on swimming and competitive strokes, such as freestyle, breaststroke and butterfly or may involve team water sports, such as water polo and relay swimming. These courses may also include, or concentrate exclusively on, diving and/or lifesaving skills.

08011 Tennis

Courses in this classification develop the knowledge and skills related to singles or doubles tennis, including shots such as serves, forehand strokes, backhand strokes and lobs as well as scoring and strategy.

08012 Self-defense

Courses in this classification develop knowledge, skills and abilities to defend against attack, usually incorporating traditional self-defense methods. Courses may also include techniques from martial arts.

08013 Specific Sports Activities

Courses in this classification develop knowledge and skills in a single sport or activity, such as basketball, volleyball, track and field, or equestrian events other than those listed within this section.

08014 Physical Education Equivalent

Courses in this classification award physical education credit for other at-school activities, such as marching band or cheerleading.

08015 Off-Campus Sports

Courses in this classification award physical education credit for off-campus sports activities such as swimming or weight training courses taken at a community center.

08016 Lifetime Fitness Education

Courses in this classification emphasize knowledge and skills needed for a lifetime of physical fitness. Content may include related topics such as nutrition, stress management and consumer issues. Students may develop and implement a personal fitness plan. The focus of this course is physical fitness.

08017 Sports Physiology

Courses in this classification examine human anatomy and physiology as they pertain to human movement and physical performance in sports activities. These courses may also emphasize the prevention and treatment of athletic injuries.

08018 Physical Education Leadership

Courses in this classification provide knowledge of the field of physical education, health and/or recreation as a profession. Courses typically offer experiences in activities such as, but not limited to, coaching, officiating and recreational leadership. They may include safety and first aid components, often incorporate fitness components and typically require active participation.

08019 Seminar/Project–Physical Education

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in physical education. They may include college and/or career exploration and planning. Students often design a project based on an area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

08020 Coaching

Courses in this classification emphasize the responsibilities, duties, and problems in training and instructing athletes and athletic teams. Course topics typically include principles of behavior, teaching, physical and mental training, and team management. Different coaching philosophies, outcomes, and styles may also be covered.

08021 Officiating

Courses in this classification provide students with the knowledge, skills, and abilities to serve as a referee, umpire, judge, or other official for a sports contest, emphasizing rule interpretation and the proper mechanics of officiating.

08030 Physical Education (Kindergarten)

Courses in this classification emphasize fundamental movement skills, body awareness and control, safety, and the enjoyment of physical activity. Specific content depends upon state standards for kindergarten.

08031 Physical Education (Grade 1)

Courses in this classification typically emphasize knowledge and skills that lead to health, enjoyment, and social development through physical activity. Course content may include activities that strengthen gross and fine motor skills, body awareness, safety, and the relationship between physical activity and health. Specific content depends upon state standards for grade one.

08032 Physical Education (Grade 2)

Courses in this classification typically emphasize knowledge and skills that lead to health, enjoyment, and social development through physical activity. Course content may include activities that strengthen gross and fine motor skills, body awareness, safety, and the relationship between physical activity and health. Specific content depends upon state standards for grade two.

08033 Physical Education (Grade 3)

Courses in this classification typically involve the acquisition of knowledge and skills that provide the foundation for sport, a physically active lifestyle, and social development through physical activity. Locomotor skills, strength, endurance, flexibility, safety, and rules and conventions of games and sports are often the focus; health education topics may also be included. Specific content depends upon state standards for grade three.

08034 Physical Education (Grade 4)

Courses in this classification courses typically involve the acquisition of knowledge and skills that provide the foundation for sport, a physically active lifestyle, and social development through physical activity. Locomotor skills, strength, endurance, flexibility, safety, and rules and conventions of games and sports are often the focus; health education topics may also be included. Specific content depends upon state standards for grade four.

08035 Physical Education (Grade 5)

Courses in this classification courses typically involve the acquisition of knowledge and skills that provide the foundation for sport, a physically active lifestyle, and social development through physical activity. Locomotor skills, strength, endurance, flexibility, safety, and rules and conventions of games and sports are often the focus; health education topics may also be included. Specific content depends upon state standards for grade five.

08036 Physical Education (Grade 6)

Courses in this classification courses typically involve the acquisition of knowledge and skills that provide the foundation for sport, a physically active lifestyle, and social development through physical activity. Activities typically include those that increase strength, endurance, and flexibility; reinforce safe technique; teach the rules and conventions of games and sports; and explore the relationship between physical activity and health. Health topics (such as the effects of drugs and alcohol, sexual education, and healthy lifestyles) may also be included. Specific content depends upon state standards for grade six.

08037 Physical Education (Grade 7)

Courses in this classification typically involve the acquisition of knowledge and skills that provide the foundation for sport, a physically active lifestyle, and social development through physical activity. Activities typically include those that increase strength, endurance, and flexibility; reinforce safe technique; teach the rules and conventions of games and sports; and explore the relationship between physical activity and health. Health topics (such as the effects of drugs and alcohol, sexual education, and healthy lifestyles) may also be included. Specific content depends upon state standards for grade seven.

08038 Physical Education (Grade 8)

Courses in this classification typically involve the acquisition of knowledge and skills that provide the foundation for sport, a physically active lifestyle, and social development through physical activity. Activities typically include those that increase strength, endurance, and flexibility; reinforce safe technique; teach the rules and conventions of games and sports; and explore the relationship between physical activity and health. Health topics (such as the effects of drugs and alcohol, sexual education, and healthy lifestyles) may also be included. Specific content depends upon state standards for grade eight.

08039 IB Physical Education, Middle Years Program

Courses in this classification aim to facilitate physical, intellectual, emotional, and social development, and to cultivate a healthy and active lifestyle. These courses include activities that are enjoyable and contribute to healthy living. They help students develop motor skills necessary to participate in a variety of physical activities, and to learn about the nature of physical fitness. Use this classification only in official IB sites.

08048 Physical Education—Independent Study

Courses in this classification, often conducted with instructors as mentors, enable students to explore topics of interest related to physical education. These courses may serve as an opportunity for students to expand their expertise, to explore a topic in detail or to develop advanced skills.

08049 Physical Education—Other

(Provide local course description.)

B. Health Education

08051 Health Education

Courses in this classification vary widely, but typically include personal health issues such as nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention and first aid. Courses may also include consumer health concerns and issues around environmental health, personal development and community resources.

08052 Health and Fitness

Courses in this classification combine the topics of health education courses, including nutrition, stress management, substance abuse prevention, disease prevention and first aid with an active fitness component, typically including aerobic activity and fitness circuits. They stress the importance of lifelong wellness habits. This course has a dual focus on health issues and physical fitness.

08053 Community Health

Courses in this classification cover not only personal health topics, such as nutrition, stress management, substance abuse prevention, disease prevention and first aid but also general health issues. Additional topics may include, but are not limited to, available community resources, fundamentals of the nation's health care system, contemporary world health issues and health career options.

08055 Safety and First Aid

Courses in this classification provide instruction in first aid techniques, cardiopulmonary resuscitation (CPR), relief of obstructed airways, and general safety procedures. They may include an overview of community agencies and hotlines providing emergency care, information for first aid and CPR certification.

08056 Health for Parenting Teens

Courses in this classification are designed for pregnant teens and/or parents. Topics include a range of health and parenting issues, typically including prenatal and postnatal care, the well-being of young parents, child development, stress management and parental/adult roles. The courses may also involve, but are not limited to, academic assistance, career exploration and financial management.

08057 Health and Life Management

Courses in this classification focus on personal health topics, such as nutrition, stress management, drug/alcohol abuse prevention, disease prevention and first aid but may also include aspects of consumer education, such as money management and evaluation of consumer information and advertising. Course objectives include helping students develop coping skills and strategies for maximum health, including decision-making, communication and interpersonal relationships.

08058 Substance Abuse Prevention

Courses in this classification focus specifically on the health risks of drugs, alcohol and tobacco. They provide information on the negative consequences of these substances and teach coping strategies to resist the influences, such as peers and media images that may entice them to use them. Exploration of available community resources may also be included.

08059 Bilingual Health Education

Courses in this classification are taught in the student's native language, expanding health education knowledge and concepts.

08060 English as a Second Language (ESL)–Transitional Health Education

Courses in this classification are designed for English language learners and may include an overview of health education areas or focus on particular areas. These courses provide a transition from ESL to mainstream high schools health courses and are taught by a health education teacher and an ESL teacher or by one teacher with dual certification in health education and ESL.

08061 Credit Recovery–Health Education

Courses in this classification are designed to enable students to recover credits required for graduation in the health curriculum.

08062 Seminar/Project–Health and Safety Education

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in health or safety education. They may include college and/or career exploration and planning. Students often design a project based on an area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

08070 Health Education (Kindergarten)

Courses in this classification emphasize the knowledge and skills that promote sound bodies and minds, prevent disease and dysfunction, and reduce risk. Topics typically involve nutrition and healthy eating habits; growth and development; injury prevention and safety; mental, emotional, and social health; alcohol, tobacco, and other drugs; physical activity; community health; and factors that influence health. Specific content depends upon state standards for kindergarten.

08071 Health Education (Grade 1)

Courses in this classification emphasize the knowledge and skills that promote sound bodies and minds, prevent disease and dysfunction, and reduce risk. Topics typically involve nutrition and healthy eating habits; growth and development; injury prevention and safety; mental, emotional, and social health; alcohol, tobacco, and other drugs; physical activity; community health; and factors that influence health. Specific content depends upon state standards for grade one.

08072 Health Education (Grade 2)

Courses in this classification emphasize the knowledge and skills that promote sound bodies and minds, prevent disease and dysfunction, and reduce risk. Topics typically involve nutrition and healthy eating habits; growth and development; injury prevention and safety; mental, emotional, and social health; alcohol, tobacco, and other drugs; physical activity; community health; and factors that influence health. Specific content depends upon state standards for grade two.

08073 Health Education (Grade 3)

Courses in this classification emphasize the knowledge and skills that promote sound bodies and minds, prevent disease and dysfunction, and reduce risk. Topics typically involve nutrition and healthy eating habits; growth and development; injury prevention and safety; mental, emotional, and social health; alcohol, tobacco, and other drugs; physical activity; community health; and factors that influence health. Specific content depends upon state standards for grade three.

08074 Health Education (Grade 4)

Courses in this classification emphasize the knowledge and skills that promote sound bodies and minds, prevent disease and dysfunction, and reduce risk. Topics typically involve nutrition and healthy eating habits; growth and development; injury prevention and safety; mental, emotional, and social health; alcohol, tobacco, and other drugs; physical activity; community health; and factors that influence health. Specific content depends upon state standards for grade four.

08075 Health Education (Grade 5)

Courses in this classification emphasize the knowledge and skills that promote sound bodies and minds, prevent disease and dysfunction, and reduce risk. Topics typically involve nutrition and healthy eating habits; growth and development; injury prevention and safety; mental, emotional, and social health; alcohol, tobacco, and other drugs; physical activity; community health; and factors that influence health. Specific content depends upon state standards for grade five.

08076 Health Education (Grade 6)

Courses in this classification emphasize the knowledge and skills that promote sound bodies and minds, prevent disease and dysfunction, and reduce risk. Topics typically involve nutrition and healthy eating habits; growth and development; injury prevention and safety; mental, emotional, and social health; alcohol, tobacco, and other drugs; physical activity; community health; and factors that influence health. Specific content depends upon state standards for grade six.

08077 Health Education (Grade 7)

Courses in this classification emphasize the knowledge and skills that promote sound bodies and minds, prevent disease and dysfunction, and reduce risk. Topics typically involve nutrition and healthy eating habits; growth and development; injury prevention and safety; mental, emotional, and social health; alcohol, tobacco, and other drugs; physical activity; community health; and factors that influence health. Specific content depends upon state standards for grade seven.

08078 Health Education (Grade 8)

Courses in this classification emphasize the knowledge and skills that promote sound bodies and minds, prevent disease and dysfunction, and reduce risk. Topics typically involve nutrition and healthy eating habits; growth and development; injury prevention and safety; mental, emotional, and social health; alcohol, tobacco, and other drugs; physical activity; community health; and factors that influence health. Specific content depends upon state standards for grade eight.

08098 Health Education—Independent Study

Courses in this classification, often conducted with instructors as mentors, enable students to explore topics of interest related to health education. These courses may serve as an opportunity for students to expand their expertise, to explore a topic in detail or to develop advanced skills.

08099 Health Education—Other

(Provide local course description.)

08104 Physical and Health Education (Kindergarten)

Courses in this classification provide students with knowledge, experience, and an opportunity to develop skills in a variety of sports or activities (for example, team sports, individual/dual sports, recreational sports, and fitness/conditioning activities) integrated with instruction in personal health (for example, nutrition, mental health and stress management, drug/alcohol abuse prevention, injury and disease prevention, and first aid) and consumer health issues. Specific content depends upon state standards for kindergarten.

08105 Physical and Health Education (Grade 1)

Courses in this classification provide students with knowledge, experience, and an opportunity to develop skills in a variety of sports or activities (for example, team sports, individual/dual sports, recreational sports, and fitness/conditioning activities) integrated with instruction in personal health (for example, nutrition, mental health and stress management, drug/alcohol abuse prevention, injury and disease prevention, and first aid) and consumer health issues. Specific content depends upon state standards for grade one.

08106 Physical and Health Education (Grade 2)

Courses in this classification provide students with knowledge, experience, and an opportunity to develop skills in a variety of sports or activities (for example, team sports, individual/dual sports, recreational sports, and fitness/conditioning activities) integrated with instruction in personal health (for example, nutrition, mental health and stress management, drug/alcohol abuse prevention, injury and disease prevention, and first aid) and consumer health issues. Specific content depends upon state standards for grade two.

08107 Physical and Health Education (Grade 3)

Courses in this classification provide students with knowledge, experience, and an opportunity to develop skills in a variety of sports or activities (for example, team sports, individual/dual sports, recreational sports, and fitness/conditioning activities) integrated with instruction in personal health (for example, nutrition, mental health and stress management, drug/alcohol abuse prevention, injury and disease prevention, and first aid) and consumer health issues. Specific content depends upon state standards for grade three.

08108 Physical and Health Education (Grade 4)

Courses in this classification provide students with knowledge, experience, and an opportunity to develop skills in a variety of sports or activities (for example, team sports, individual/dual sports, recreational sports, and fitness/conditioning activities) integrated with instruction in personal health (for example, nutrition, mental health and stress management, drug/alcohol abuse prevention, injury and disease prevention, and first aid) and consumer health issues. Specific content depends upon state standards for grade four.

08109 Physical and Health Education (Grade 5)

Courses in this classification provide students with knowledge, experience, and an opportunity to develop skills in a variety of sports or activities (for example, team sports, individual/dual sports, recreational sports, and fitness/conditioning activities) integrated with instruction in personal health (for example, nutrition, mental health and stress management, drug/alcohol abuse prevention, injury and disease prevention, and first aid) and consumer health issues. Specific content depends upon state standards for grade five.

08110 Physical and Health Education (Grade 6)

Courses in this classification provide students with knowledge, experience, and an opportunity to develop skills in a variety of sports or activities (for example, team sports, individual/dual sports, recreational sports, and fitness/conditioning activities) integrated with instruction in personal health (for example, nutrition, mental health and stress management, drug/alcohol abuse prevention, injury and disease prevention, and first aid) and consumer health issues. Specific content depends upon state standards for grade six.

08111 Physical and Health Education (Grade 7)

Courses in this classification provide students with knowledge, experience, and an opportunity to develop skills in a variety of sports or activities (for example, team sports, individual/dual sports, recreational sports, and fitness/conditioning activities) integrated with instruction in personal health (for example, nutrition, mental health and stress management, drug/alcohol abuse prevention, injury and disease prevention, and first aid) and consumer health issues. Specific content depends upon state standards for grade seven.

08112 Physical and Health Education (Grade 8)

Courses in this classification provide students with knowledge, experience, and an opportunity to develop skills in a variety of sports or activities (for example, team sports, individual/dual sports, recreational sports, and fitness/conditioning activities) integrated with instruction in personal health (for example, nutrition, mental health and stress management, drug/alcohol abuse prevention, injury and disease prevention, and first aid) and consumer health issues. Specific content depends upon state standards for grade eight.

C. Drivers' Education

08151 Drivers' Education—Classroom Only

Courses in this classification provide knowledge to become safe drivers. Topics include legal obligations and responsibility, rules of the road and traffic procedures, safe driving strategies and practices, and physical and mental factors affecting the driver's capability, including alcohol and other drugs.

08152 Drivers' Education—Classroom and Laboratory

Courses in this classification provide knowledge and experience to become safe drivers. Topics include legal obligations and responsibility, rules of the road and traffic procedures, safe driving strategies and practices, and the physical and mental factors affecting the driver's capability, including alcohol and other drugs. Instruction in driving a vehicle is an essential component of these courses.

08153 Drivers' Education—Independent Study

Courses in this classification, often conducted with instructors as mentors, enable student to practice and develop driving skills in a variety of situations. These courses serve as an opportunity for students to expand their knowledge and expertise of vehicle operation and driving laws.

08199 Drivers' Education—Other

(Provide local course description.)

D. All Others

08990 Physical Education/Health/Drivers' Education

Courses in this classification combine a range of activities and topics involving physical skills, human health issues, and safe driving. They are offered in ways that cover two or three of these areas. The physical education portion of these courses draws on team, individual, dual, recreational, and/or conditioning activities. The human health portion typically covers issues such as nutrition, stress management, drug/alcohol abuse prevention, and first aid. The drivers' education portion usually includes legal obligations and responsibilities, rules of the road and traffic procedures, safe driving strategies, and related topics.

08991 Physical, Health, and Safety Education–Independent Study

Courses in Physical, Health, and Safety Education–Independent Study, often conducted with instructors as mentors, enable students to explore topics of interest related to physical, health, and safety education. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in greater detail, or to develop more advanced physical, health and/or safety skills.

08995 Physical, Health, and Safety Education–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

08999 Physical, Health, and Safety Education–Other

(Provide local course description.)

Subject Area 09: Military Science

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) classifications are written to describe all grades in the K-12 grade-level span, unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classifications.

III. Military Science course categories

Category	Code Range
A. General	09(001)–09(050)
B. Army	09(051)–09(100)
C. Army	09(051)–09(100)
D. Air Force	09(151)–09(200)
E. Marine Corps	09(201)–09(250)
F. Others	09(994)–09(999)

A. General

09001 Introduction to Junior ROTC

Courses in this classification introduce the purposes and objectives of the Reserve Officer Training Corps (ROTC) program, which seeks to educate high school students in citizenship, promote community service and instill responsibility. Course topics typically include a brief history of the military branches in the United States and the basics of military drill, ceremony and rank structure.

09002 Military Junior ROTC–Unspecified Branches

Courses in this classification provide instruction in the history, organization, role, objectives and achievements of the U.S. Armed Forces. Students develop personal fitness, strong character and leadership qualities. Courses explore career opportunities provided by the Armed Services and typically include military customs, courtesies, rank, drill and ceremonies while emphasizing citizenship and scholarship. Content typically includes subjects related to particular branches being studied, such as map-reading, nautical skills, aerospace technology or communication technologies as well as more general subjects, including international law, national defense, celestial navigation and geopolitical strategy.

09003 ROTC Drill

Courses in this classification provide opportunity to improve student skills in military precision. These courses emphasize marching style and formations, firearm manipulation, body coordination and mechanics, and performing as a member of an orchestrated team. Students typically participate in ceremonies and competitions.

09004 Military Leadership

Courses in this classification focus solely on increasing students' leadership skills, particularly as they relate to military operations, customs and hierarchies. These courses are typically the final course within a program series and a part of specific ROTC programs described below. This classification number should be used when specific course descriptions below do not appropriately classify the local course. Skills taught in these courses include supervision, motivation, evaluation and setting an example.

B. Army

09051 Army Junior ROTC I

Courses in this classification include organization and functions of the U.S. Army, leadership skills and life skills education. Content includes the history of the Army, including its structure, operations, and customs; maps and navigation; first aid, personal hygiene, and field sanitation; and substance abuse prevention. They introduce principles of leadership and citizenship.

09052 Army Junior ROTC II

Courses in this classification build upon ROTC I and may include ongoing instruction in leadership and citizenship, drill and ceremonies, organizational structure, command relationships and responsibilities, campaigns and leaders, map reading, weapon safety and marksmanship, and survival training.

09053 Army Junior ROTC III

Courses in this classification build upon prior Army courses, giving more emphasis to leadership development. They include planning, problem-solving, motivation, and performance appraisal as well as management skills, regarding time, personnel, and resources. Topics introduced in earlier courses may be studied at a more advanced level.

09054 Army Junior ROTC IV

Courses in this classification focus on practical leadership by assigning students to command and staff positions in which they present instruction to lower Army classes and continue to study and review staff functions and actions, staff-commander relationships and leadership principles.

C. Navy

09101 Naval Junior ROTC I

Courses in this classification emphasize citizenship and leadership development, as well as maritime heritage, sea power, and naval operations and customs. These courses introduce the Naval Junior ROTC program, U.S. Navy mission and organization, maritime geography, naval history, basic seamanship, oceanography, and health education.

09102 Naval Junior ROTC II

Courses in this classification build upon the content ROTC I and include leadership principles and discipline, citizenship, naval opportunities and career planning, naval ships and weaponry, seamanship, meteorology and weather, and survival training. Students learn teamwork and naval history.

09103 Naval Junior ROTC III

Courses in this classification build upon prior courses and include leadership principles and discipline, military justice, international law and the sea, naval intelligence/strategies and national security, and sciences involved in naval operations, such as electricity, electronics, communications and technologies. Students continue to learn teamwork, naval history, and military principles.

09104 Naval Junior ROTC IV

Courses in this classification are focused on practical leadership, placing students in positions where they can learn, practice, and understand skills involved in leading others, such as supervision, motivation, evaluation, setting examples and problem-solving.

D. Air Force

09151 Air Force Junior ROTC I

Courses in this classification include both aerospace studies and leadership/life skills education. They include leadership/life skills, heritage and development of the Air Force, including its structure, operations and customs. Aerospace topics include the development, history, and impact of flight; aircraft and spacecraft; and the environment in which these crafts operate.

09152 Air Force Junior ROTC II

Courses in this classification include both aerospace studies and leadership/life skills. They include leadership/life skills, intercommunication skills, drill, and military ceremonies. Aerospace topics emphasize the science of flight, including factors of aerospace power, aircraft flight, and navigation.

09153 Air Force Junior ROTC III

Courses in this classification include both aerospace studies and leadership/life skills with applications to military life. Aerospace topics emphasize space technology and exploration; examine national defense systems; and advance students' knowledge of aviation, propulsion, and navigation.

09154 Air Force Junior ROTC IV

Courses in this classification include both aerospace studies and leadership/life skills. They concentrate on leadership, management principles and career opportunities. They may include relationships between the nations of the world. Aerospace topics include advanced aerodynamics and aeronautics.

E. Marine Corps

09201 Marine Corps Junior ROTC I

Courses in this classification introduce the Marine Corps Junior ROTC program, emphasizing personal growth and responsibility along with general military subjects. Content includes physical training; health education, including hygiene, first aid, nutrition, and substance abuse prevention; and communication skills. They introduce the Marine Corps code of conduct; drill and ceremony; military uniforms, and customs; military history; and the structure and chain of command.

09202 Marine Corps Junior ROTC II

Courses in this classification build upon ROTC I and emphasize personal growth and responsibility, leadership, and citizenship along with military subjects, including mission, organization, history of the Marine Corps; geography, maps, and navigation; drill and ceremony; and military justice. Students learn leadership skills, such as authority, responsibility, accountability and citizenship topics including U.S. government structures, documents, and symbols.

09203 Marine Corps Junior ROTC III

Courses in this classification build upon prior courses and include leadership practice, including training, inspection and evaluation; public service career opportunities; and citizenship responsibilities. Topics include personal skills such as financial planning, saving and investing, and evaluating credit and insurance terms. Students advance their navigation skills and may study firearm use, safety and marksmanship.

09204 Marine Corps Junior ROTC IV

Courses in this classification focus on leadership, written and verbal communication, personal growth and public service. They emphasize drill and ceremony, physical fitness, marksmanship, land navigation, and military history at more advanced levels than in previous courses.

F. Others

09994 Seminar/Project–Military Science

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in military science. They may include college and/or career exploration and planning. Students often design a project based on an area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication, interpersonal skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

09995 Military Science–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

09997 Military Science–Independent Study

Courses, often conducted with instructors/armed services personnel as mentors, enable students to explore topics of interest related to military science. These courses may serve as an opportunity for students to expand their expertise, explore a topic in detail or develop advanced skills.

09999 Military Science–Other

(Provide local course description.)

Subject Area 10: Computer Information Sciences

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) classifications are written to describe all grades in the K-12 grade-level span, unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. This subject area has the course classification “Particular Topics” in one or more categories. Use this classification when local courses focus on a topic or combination of topics that are not specified in other MCCC classifications listed within the category.
2. Some local courses combine two MCCC course classifications or topics and no MCCC classification exists for that local combination (and there are no “Particular Topic” classifications in the category). If one of the topics in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that topic. If all topics are of equal focus, use the “Other” course classification at the end of the subject area to classify the local combination and provide a brief description of local course content.
3. Local IB or AP preparation courses should not be classified under the official IB or AP classifications listed in the MCCC. They should be classified under the MCCC classification that best describes the content and course level should be documented as “E” for enriched or honors.
4. There are distinctions among software and keyboarding courses in 12 Business and Marketing and 10 Computer and Information Sciences. If the local course focus of learning is:
 - a. Keyboarding skills and technique, classify as 12005 Keyboarding.
 - b. Software programs and improving keyboarding skills, classify as 12006 Word Processing.
 - c. Software programs but does not include keyboarding skills, classify as 10004 Computer Applications.
 - d. Software programs specifically for business, classify as 10005 Business Computer Applications.
5. Courses that introduce students to hardware and software components, including assembly, configuration and maintenance while preparing them for industry examination and certification are best classified as 10254 IT Essentials: PC Hardware and Software.

III. Computer Information Sciences course categories

Category	Code Range
A. Computer Literacy	10(001)–10(050)
B. Management Information Systems	10(051)–10(100)
C. Networking Systems	10(101)–10(150)
D. Computer Science/Programming	10(151)–10(200)
E. Media Technology	10(201)–10(250)
F. Information Support and Services	10(251)–10(300)
G. All Others	10(990)–10(999)

A. Computer Literacy

10001 Introduction to Computers

Courses in this classification introduce computers and peripheral devices, the functions and uses of computers, the language used in the computer industry, and computer applications. They 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. Careers related to computer hardware and software are often investigated.

10002 Computing Systems

Courses in this classification offer a broad exploration of computer use in a variety of fields. They have a range of content, but typically include the introduction of robotics and control systems, computer-assisted design (CAD), computer-aided manufacturing systems and other computer technologies as they relate to industry applications.

Note: This comprehensive course is not duplicated in **21 Engineering and Technology**.

10003 Computer and Information Technology

Courses in this classification focus on the operation and use of computer and information technology, emphasizing their role in communicating effectively, conducting research efficiently and increasing productivity. They include legal and ethical issues involved with computer technology use.

10004 Computer Applications

Courses in this classification support students in acquiring 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 cover the use of electronic mail and desktop publishing.

10005 Business Computer Applications

Courses in this classification support students in acquiring knowledge of and experience in the proper and efficient use of previously written software packages, particularly those used in the business world. Generally, these courses explore a range of applications, including, but not limited to, word-processing, spreadsheet, graphics, and database programs, and they may cover topics such as electronic mail, desktop publishing, and telecommunications.

10006 Telecommunications

Courses in this classification address global communications and the equipment and systems needed to communicate successfully in a global environment. Topics include data communication protocol and systems, government regulations of the communications industry and the use of cost-effective tools to transmit messages and data. They may include email, internet or ecommerce systems, LAN, WAN, voice transmission, cell phone technology and traditional teleconferencing.

10007 IB Information Technology in a Global Society

Courses in this classification prepare students to take the International Baccalaureate Information Technology exams and explore the interaction among information, technology and society. Course content supports students in developing a systematic, problem-solving approach to processing and analyzing information using a range of information tools. Students also discuss and evaluate how modern information technology affects individuals, relationships among people, and institutions and societies.

10008 Particular Topics in Computer Literacy

Courses in this classification examine particular topics related to general computer literacy other than those already described, such as privacy issues or instruction in using a particular software application.

10010 Computer Literacy

Courses in this classification provide to students the knowledge and ability to use computers and technology efficiently. Typically, course content includes exposure to word-processing, spreadsheet, and presentation applications, but also may include the various uses of computers in modern society. Specific course content aligns with state standards to promote students' technological literacy.

10011 Computer Science Principles

Courses in this classification provide students the opportunity to use programming, computational thinking and data analytics to create digital artifacts and documents representing design and analysis in areas including the internet, algorithms and the impact that these have on science, business and society. Course content includes use of computational tools and techniques including abstraction, modeling and simulation to collaborate in solving problems that connect computation to our lives.

10012 Exploring Computer Science

Courses in this classification provide students with the conceptual underpinnings of computer science through the exploration of human computer interaction, web design, computer programming, data modeling and robotics. While courses include programming, the focus is on the computational practices associated with doing computer science, rather than a narrow focus on coding, syntax or tools. These courses explore computational practices of algorithm design, problem-solving and programming within a context that is relevant to the students' lives.

10013 Internet Skills

Courses in this classification introduce students to the World Wide Web and the internet. Course content may include search techniques and algorithms, web browser utilization, website creation, and the history of the internet.

10014 PLTW Computer Science Essentials™

Courses in this classification adhere to the Project Lead the Way (PLTW) curriculum and are offered at an official PLTW site. Courses in this classification introduce students to computational thinking concepts, fundamentals, and tools. Students will increase their understanding of programming languages through the use of visual and text-based programming. Projects will include the creation of apps and websites to address real-life topics and problems.

10015 PLTW Computer Science A™

Courses in this classification adhere to the PLTW curriculum and are offered at an official PLTW site. This course will prepare students for the College Board's Advanced Placement Computer Science A exam. PLTW Computer Science A (formerly known as PLTW Computer Science Applications) courses focus on extending students' computational thinking skills through the use of various industry-standard programming and software tools. In these courses, students collaborate to design and produce solutions to real-life problems.

10016 PLTW Computer Science Principles™

Courses in this classification adhere to the PLTW curriculum and are offered at an official PLTW site. This course is designed to help students develop computational thinking, and introduce students to possible career paths involving computing. These courses help students build programming expertise and familiarity with the internet using multiple platforms and programming languages. Course content may include application development, visualization of data, cybersecurity, and simulation.

10020 AP Computer Science Principles

Courses in this classification follow the College Board's suggested curriculum designed to parallel college-level computer science principles courses, AP Computer Science Principles courses introduce students to the fundamental ideas of computer science and how to apply computational thinking across multiple disciplines. These courses teach students to apply creative designs and innovative solutions when developing computational artifacts. These courses cover such topics as abstraction, communication of information using data, algorithms, programming, the internet, and global impact.

10021 Cybersecurity

Courses in this classification introduce students to the concepts of cybersecurity. These courses provide students with the knowledge and skills to assess cyber risks to computers, networks, and software programs. Students will learn how to create solutions to mitigate cybersecurity risks. These courses may also cover the legal environment and ethical computing behavior related to cybersecurity.

B. Management Information Systems

10051 Information Management

Courses in this classification provide the knowledge and skills to develop and implement a plan for an information system that meets the needs of business. Students develop an understanding of information system theory, skills in administering and managing information systems, and the ability to analyze and design information systems.

10052 Database Management and Data Warehousing

Courses in this classification provide the skills necessary to design databases to meet user needs. They typically address how to enter, retrieve and manipulate data into useful information. Advanced topics include implementing applications for common transactions and the utility of mining data.

10053 Database Applications

Courses in this classification provide an understanding of database development, modeling, design, and normalization. Topics such as SELECT statements, data definition, manipulation, control languages, records, and tables may be included. Students may use Oracle Web DB, SQL, PL/SQL, SPSS, and SAS and may prepare for certification.

10054 Data Systems/Processing

Courses in this classification introduce the uses and operation of computer hardware and software and programming languages used in business applications. Students typically use BASIC, COBOL, and/or RPL languages as they write flowcharts or computer programs and may learn data-processing skills.

10055 Particular Topics in Management Information Systems

Courses in this classification examine particular topics in management information systems other than those already described.

C. Networking Systems

10101 Network Technology

Courses in this classification address the technology involved in the transmission of data between and among computers through data lines, telephone lines, or other transmission media, such as hard wiring, cable television networks, and radio waves. They emphasize the capabilities of networks, network technology itself or both, including electronic mail, public networks, and electronic bulletin boards and/or network software, hardware and peripherals involved in setting up and maintaining a computer network.

10102 Networking Systems

Courses in this classification provide the opportunity to work with hubs, switches, and routers. Students develop an understanding of local area network (LAN), wide area network (WAN), wireless connectivity, and internet-based communications with a strong emphasis on network function, design, and installation practices. Study of design, installation, maintenance, and management of network systems may prepare for network certification, such as NET+.

10103 Area Network Design and Protocols

Courses in this classification address the role of computers in a network system, the Open Systems Interconnection (OSI) model, structured wiring systems, simple local area network (LAN) and wide area network (WAN) designs.

10104 Router Basics

Courses in this classification address router components, start-up, and configuration using CISCO routers, switches, and the Internetwork Operation System (IOS). They also include topics such as TCP/IP protocol, IP addressing, subnet masks, and network troubleshooting.

10105 NetWare Routing

Courses in this classification introduce Virtual LANs (VLAN) and switched internetworking, comparing traditional shared local area network (LAN) configurations with switched LAN configurations, and may include the benefits of using a switched VLAN architecture. They also may include routing protocols like RIP, IGRP, Novell IPX, and Access Control Lists (ACLs).

10106 Wide Area Telecommunications and Networking

Courses in this classification provide the knowledge and skills to enable students to design Wide Area Networks (WANs) using ISDN, Frame-Relay, and PPP. They include knowledge and skills in network management and maintenance and develop expertise in troubleshooting and assessing the adequacy of network configuration to meet changing conditions.

10107 Wireless Networks

Courses in this classification focus on design, planning, implementation, operation, and troubleshooting of wireless computer networks. They typically include a comprehensive overview of best practices in technology, security, and design, emphasizing on hands-on skills in 1) wireless LAN set-up and troubleshooting; 2) 802.11a and 802.11b technologies, products, and solutions; 3) site surveys; 4) resilient WLAN design, installation, and configuration; 5) vendor interoperability strategies; and 6) wireless bridging.

10108 Network Security

Courses in this classification teach design and implementation of security measures in order to reduce the risk of data vulnerability and loss. Content typically includes security policies; firewall design, installation, and management; secure router design, configuration, and maintenance; and security-specific technologies, products, and solutions.

10109 Essentials of Network Operating Systems

Courses in this classification provide a study of multi-user, multi-tasking network operating systems. Students learn the characteristics of network operating systems, such as Linux, Windows, NT, and XP and explore a variety of topics including installation procedures, security issues, back-up procedures, and remote access.

10110 Microsoft Certified Professional (MCP)

Courses in this classification provide the knowledge and skills necessary to be a network administrator in the latest Windows server-networking environment. Topics include installing, configuring, and troubleshooting the Windows server. Students set up network connections, manage security issues and shares, and develop policies. Students are typically encouraged to take the MCP exam.

10111 Particular Topics in Networking Systems

Courses in this classification examine particular topics in networking systems other than those already described.

D. Computer Science/Programming

10151 Business Programming

Courses in this classification provide experience in using previously written software packages as well as designing and writing programs. Word-processing, spreadsheet, graphics, and database exercises in these courses contain a business industry focus, and the original programs are written in languages typical of this industry, such as Visual Basic (VB), C++, Java, BASIC, COBOL, and/or RPL.

10152 Computer Programming

Courses in this classification provide knowledge and skills necessary to construct programs in one or more languages. Computer coding and program structure are often introduced with the BASIC language, but other computer languages, such as Visual Basic (VB), Java, Pascal, C++, and COBOL, may be used. Students learn to structure, create, document, and debug computer programs. Advanced courses emphasize design, style, clarity, and efficiency. Students may apply skills they learn to applications such as modeling, data management, graphics, and text processing.

10153 Visual Basic Programming

Courses in this classification provide opportunity to gain expertise in programs using the Visual Basic (VB) language. They emphasize how to structure and document programs and how to use problem-solving techniques. Topics include the use of text boxes, scroll bars, menus, buttons and Windows applications. More advanced topics may include mathematical and business functions and graphics.

10154 C++ Programming

Courses in this classification provide an opportunity to gain expertise in programs using the C++ language. They emphasize how to write logically structured programs, include appropriate documentation and use problem-solving techniques. More advanced topics may include multi-dimensional arrays, functions and records.

10155 Java Programming

Courses in this classification provide the opportunity to gain expertise in programs using the Java language. They emphasize how to structure and document computer programs, using problem-solving techniques. Topics include syntax, I/O classes, string manipulation and recursion.

10156 Computer Programming—Other Language

Courses in this classification provide the opportunity to gain expertise in programs using languages other than those specified, such as Pascal, FORTRAN, or emerging languages. They emphasize how to structure and document computer programs, using problem-solving techniques. As students advance, they learn to capitalize on the features and strengths of the language being used.

10157 AP Computer Science A

Courses in this classification follow the College Board's suggested curriculum and mirror college-level computer science courses. They provide the logical, mathematical and problem-solving skills needed to design structured, well-documented computer programs that provide solutions to real-world problems. Courses cover such topics as programming methodology, features and procedures; algorithms; data structures; computer systems and programmer responsibilities.

10159 IB Computing Science

Courses in this classification prepare students to take the International Baccalaureate Computer Science exams. The courses emphasize system fundamentals, computer organization, and networks, as well as the fundamental concepts of computational thinking, the development of practical computational solutions, and programming. IB Computer Science courses also cover the applications and effects of the computer on modern society as well as the limitations of computer technology.

10160 Particular Topics in Computer Programming

Courses in this classification examine particular topics in computer programming other than those already described.

E. Media Technology

10201 Webpage Design

Courses in this classification teach how to design websites by introducing students to and refining their knowledge of site planning, page layout, graphic design, and the use of markup languages, such as Extensible Hypertext Markup, JavaScript, Dynamic HTML, and Document Object Model to develop and maintain a web page. They may include security and privacy issues, copyright infringement, trademarks, and 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.

10202 Computer Graphics

Courses in this classification provide the opportunity to explore the capability of the computer to produce visual imagery and apply graphic techniques to various fields, such as advertising, TV/video and architecture. They may include modeling, simulation, animation and image retouching.

10203 Interactive Media

Courses in this classification provide the knowledge and skills to create, design and produce interactive media products and services. They may emphasize the development of digitally generated and/or computer-enhanced media. Topics may include 3D animation, graphic media, web development, and virtual reality. Courses may prepare students for industry certification.

10204 Animation

Courses in this classification provide the knowledge and skills to design, create and produce animation. Areas of study may include traditional, stop motion, computer and/or other techniques and approaches. Courses may include a survey of animation techniques and approaches or focus on a single approach.

10205 Particular Topics in Media Technology

Courses in this classification examine particular topics in internet design and applications other than those already described.

10206 Computer Gaming and Design

Courses in this classification prepare students to design computer games by studying design, animation, artistic concepts, digital imaging, coding, scripting, multimedia production and game play strategies. Course topics may also include level design, environment and 3D modeling, scene and set design, motion capture and texture mapping.

10207 Mobile Applications

Courses in this classification provide students with opportunities to create applications for mobile devices using a variety of commercial and open source software. They typically address the installation and modification of these applications, as well as customer service skills to respond to user issues.

F. Information Support and Services

10251 Computer Technology

Courses in this classification introduce the features, functions and design of computer hardware, as well as providing instruction in the maintenance and repair of computer components and peripheral devices.

10252 Computer Maintenance

Courses in this classification apply basic electronic theory and principles in diagnosing and repairing personal computers and input/output devices. Topics may include operating, installing, maintaining, and repairing computers, network systems, digital control instruments, programmable controllers, and related robotics.

10253 Information Support and Services

Courses in this classification prepare students to assist users of personal computers by diagnosing their problems in using application software packages and maintaining security requirements.

10254 IT Essentials: PC Hardware and Software

Courses in this classification provide study of computer hardware and operating systems. Topics include the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Students learn to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. Courses introduce students to networking and often prepare them for industry certification such as A+.

10255 CISCO–The Panduit Network Infrastructure Essentials (PNIE)

Courses in this classification provide the knowledge to create network infrastructure solutions. They offer students basic cable installer information and help them acquire the skills to build and use the physical layer of network infrastructure and develop a deeper understanding of networking devices.

10256 Particular Topics in Information Support and Services

Courses in this classification examine particular topics in computer support, maintenance and repair other than those already described.

10257 Computer Forensics

Courses in this classification address the preservation, identification, extraction, documentation and interpretation of computer data. Topics include legal concepts, evidence handling and preservation, file system structures, chain of custody and identification and recovery of computer data. Courses may also include the need to perform an investigation and how to collect evidence and analyze data.

10258 Cyber Crime

Courses in this classification address legal and ethical behavior associated with network security. Topics include current common practices used to secure networks, how to test these networks, and methods that can be used to create a secure network environment. Courses may also include federal and state legislation and their impact on information technology practices.

G. All Others

10990 Computer Information Sciences–Work Experience Classroom

Courses in this classification accompany work experience programs (apprenticeships or work-based learning) and typically involve further study of the field and discussion of experiences in the workplace.

10991 Computer Information Sciences–Student Leadership

Courses in this classification develop students' personal and group leadership skills and typically focus on effective communication, decision-making, problem-solving and completion of group activities. May include participation in student organizations, such as SkillsUSA, or all of these activities may be embedded in other computer information science courses.

10992 Computer Information Sciences–Apprenticeship

Courses in this classification provide students with supervised workplace training in computer and/or information sciences. Goals are typically set cooperatively by the student, school coordinator, and mentor/employer (although students are not necessarily paid). Students' work is evaluated by a school coordinator and the mentor/employer. These courses are accompanied by a classroom component (see 10990 Work Experience Classroom above).

10994 Seminar/Project–Computer Information Sciences

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in computer information sciences. They may include college and/or career exploration and planning. Students often design a project based on their areas of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

10995 Computer and Information Sciences–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

10997 Computer and Information Sciences–Independent Study

Courses in this classification, often conducted with instructors as mentors, enable students to explore computer-related topics of interest. These courses may serve as an opportunity for students to expand their expertise, explore a topic in detail, or develop advanced skills.

10998 Computer and Information Sciences–Work-Based Learning

Courses in this classification provide students with work experience in computer and/or information sciences. Goals are typically set cooperatively by the student, school coordinator and employer (although students are not necessarily paid). Students' work is supervised and evaluated by a school coordinator and the employer. These courses are accompanied by a classroom component (see 10990 Work Experience Classroom above).

10999 Computer and Information Sciences–Other

(Provide local course description.)

Subject Area 11: Communication and Audio/Visual Technology

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) course classifications are written to describe all grades in the K-12 span unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. This subject area has the course classification “Particular Topics” in one or more categories. Use this classification when the local course focuses on a topic or a combination of topics that are not specified in other MCCC classifications listed within the category.
2. Some local courses combine two MCCC course classifications or topics and no MCCC classification exists for that local combination. If one of the topics in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that topic. If all topics are of equal focus, use the “Other” course classification at the end of the subject area to classify the local combination and provide a brief description of local course content.
3. Computer programming classifications are listed **10 Computer and Information Sciences**.
4. The comprehensive production classification that covers various mediums is *11051 Audio/Visual Production*. If the local production course focuses on a particular medium, please use a specific, production classification if one exists. With the 2015 edition, there is now a specific production classification for radio courses. It is *11108 Radio Production*.
5. Film study classifications (as opposed to film production courses in this subject area) are listed in **01 English Language and Literature** and **05 Visual and Performing Arts**.
6. Digital imaging courses, depending on the focus of instruction, may be classified under various MCCC classifications. Consider these courses:
 - a. *05251 Digital Imaging*
 - b. *11054 Photo Imaging*
 - c. *11151 Digital Media Technology*
 - d. *11153 Digital Media Design and Production*

III. Communication and Audio/Visual Technology course categories

Category	Code Range
A. Communication	11(001)–11(050)
B. Audio and Video Technology and Film	11(051)–11(100)
C. Journalism and Broadcasting	11(101)–11(150)
D. Printing Technology and Production	11(151)–11(200)
E. All Others	11(990)–11(999)

A. Communication

11001 Introduction to Communication

Courses in this classification support students in understanding and evaluating role of media in society. Content typically includes investigation and evaluation of visual images, printed materials and audio segments as tools of information, entertainment and propaganda; and recognition of various techniques for delivery of a particular message. Courses may focus on a particular medium and creation of a media product may be included as well as consideration of career opportunities.

11002 Communication Technology

Courses in this classification support students in effectively communicating 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.

Note: The focus of this course description makes it most applicable to industrial technology courses.

11003 Particular Topics in Communication

Courses in this classification examine specific topics in communication other than those already described.

11004 Social Media

Courses in this classification explore various types of social media and how social media has influenced society. They emphasize the forms, functions, regulations, implications and utilization of social media.

B. Audio and Video Technology and Film

11051 Audio/Visual Production

Courses in this classification provide 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, and production principles are typical topics. 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 and technology may be included as well as career investigation.

11052 Commercial Photography

Courses in this classification provide instruction in the use of cameras and laboratory film processing techniques. Topics 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.

11053 Photographic Laboratory and Darkroom

Courses in this classification prepare students to develop and print still or motion picture film. Topics include controlling resultant prints; touching up negatives; and finishing, coloring, restoring and copying prints.

11054 Photo Imaging

Courses in this classification provide the opportunity to communicate ideas and information via digital, film, still and video photography. Topics covered typically include composition, layout, lighting and supplies. Advanced courses may include instruction in specialized camera and equipment maintenance, application to commercial and industrial need and photography business operations.

11055 Video

Courses in this classification explore video communications, incorporating both the technical and artistic aspects of video media. Topics include use of video equipment and techniques, and students typically create a video presentation. Advanced topics may include creating various forms of film media including silent film; sport and music video; and self-portrait video.

11056 Particular Topics in Audio/Video Technology and Film

Courses in this classification examine specific topics in audio and video technology and film other than those already described.

C. Journalism and Broadcasting

11101 Journalism

Courses in this classification (typically involving school newspaper, yearbook or literary magazine production) emphasize writing style and technique as well as production values and organization. They introduce 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 may be included.

11102 Photojournalism

Courses in this classification explore 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, these courses provide students with opportunity to improve their photo composition and film development skills, and to apply their art to journalistic endeavors.

11103 Broadcasting Technology

Courses in this classification provide the knowledge and skills to produce television broadcast programs. Typically, students prepare and produce short programs while learning the technical aspects of the operation, evaluating programming and assessing audience reaction and impact.

11104 Publication Production

Courses in this classification involve the production aspects of the school yearbook, newspaper, literary magazine and/or other printed publications. Students typically gain experience in design, layout and production of one or more publications. Courses may include printing of publications but there is no journalism instruction component in this course classification.

11105 Particular Topics in Journalism and Broadcasting

Courses in this classification examine specific topics in journalism and broadcasting other than those already described.

11106 Journalism—Print and Broadcast

Courses in this classification provide the knowledge and skills necessary to work in both print publications and television broadcast productions. Students gain experience in several components or focus on a single aspect of print publication and/or aspect of broadcasting.

11107 Emerging Technologies in Journalism

Courses in this classification promote the development of skills for journalism. Course topics include exploration of the role media and the communication industry has in society, technical skills related to journalistic writing and interviewing, electronic communications, journalistic blogging, and the ethical and legal issues related to technology in media and communications.

11108 Radio Production

Courses in this classification address practices related to the management and operation of a broadcasting station. They introduce the radio industry, news reporting and broadcast engineering. Topics include basic electricity and electronics, including all aspects of safety. Other topics include operating audio boards, announcing, creating and producing audio scripts and using digital audio software. Advanced courses may explore direct programming, on-air performance and analysis of radio markets.

D. Printing Technology and Production

11151 Digital Media Technology

Courses in this classification provide the skills necessary to support and enhance student learning about digital media technology. Topics include internet research, copyright laws, web-publishing, electronic forums, newsgroups, mailing lists, presentation tools, project planning and the use of digital imagery.

11152 Desktop Publishing

Courses in this classification integrate the knowledge and skills in word processing with the concepts, procedures and application of desktop publishing. Students learn to format, create and proofread brochures, programs, newsletters, webpages, presentations and manuscripts.

11153 Digital Media Design and Production

Courses in this classification teach the fundamentals of graphic design and production and provide the opportunity to apply these principles to printed media, digital presentation media and interactive media.

11154 Commercial Graphic Design

Courses in this classification teach the use of artistic techniques to communicate ideas and information to business and customer audiences via illustration and other forms of digital or printed media. Topics include concept design, layout, paste-up and techniques such as engraving, etching, silkscreen, lithography, offset, drawing and cartooning, painting, collage and computer graphics.

11155 Graphic Technology

Courses in this classification apply artistic and computer techniques to the interpretation of technical and commercial concepts. Topics include computer-assisted art and design, printmaking, concept sketching, technical drawing, color theory, imaging, studio techniques, still life modeling, and commercial art business operations. Advanced topics may include topographic arrangements of print and/or electronic graphic and textual products, printing and lithographic equipment and operations, digital imaging, print preparation, desktop publishing and web page design.

11156 Photography and Printing Technology

Courses in this classification explore the tools, materials and processes involved in mass production of photography and printing. Types of printing may include intaglio, relief, planographic, screen processes printing, silk screening, serigraphy processes and thermograph. Additional topics may include camera use, composition, imposition, presswork and computer-aided publishing.

11157 Photoengraving

Courses in this classification provide students with the skills necessary to photograph illustration and other copy that cannot be set in type, to develop negatives, and to prepare photosensitized metal plates for use in printing.

11158 Print Press Operations

Courses in this classification provide students with the necessary skills for operating a print press. Topics covered in this course include how to prepare, operate and maintain printing processes.

11159 Particular Topics in Printing Technology and Production

Courses in this classification examine specific topics in printing production, such as bookbinding or silkscreen printmaking, other than those already described.

E. All Others

11990 Communication and Audio/Visual Technology–Work Experience Classroom

Courses in this classification accompany work experience programs (apprenticeships or work-based learning) and typically involve further study of the field and discussion of experiences in the workplace.

11991 Communication and Audio/Visual Technology–Student Leadership

Courses in this classification develop students' personal and group leadership skills and typically focus on effective communication, decision-making, problem-solving and completion of group activities, and may include participation in student organizations, such as SkillsUSA. Or, all of these activities may be embedded in other communication and audio/visual technology courses.

11992 Communication and Audio/Visual Technology–Apprenticeship

Courses in this classification provide students with supervised workplace training in communication and audio/visual technology. Goals are typically set cooperatively by the student, school coordinator and mentor/employer (although students are not necessarily paid). Students' work is evaluated by a school coordinator and the mentor/employer. These courses are accompanied by a classroom component (see 11990 Work Experience Classroom above).

11995 Communication and Audio/Video Technology–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

11996 Seminar/Project–Communication and Audio/Visual Technology

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in communication and audio/visual technology. They may include college and/or career exploration and planning. Students often design a project based on an area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

11997 Communication and Audio/Video Technology–Independent Study

Courses in this classification, often conducted with instructors as mentors, enable students to explore topics of interest related to mass communication and its technologies. They serve as an opportunity for students to expand their expertise, explore a topic in detail or develop advanced skills.

11998 Communication and Audio/Video Technology–Work-Based Learning

Courses in this classification provide students with work experience in a field related to communication or audio/visual technology. Goals are typically set cooperatively by the student, school coordinator, and employer (although students are not necessarily paid). Students' work is supervised and evaluated by a school coordinator and the employer. These courses are accompanied by a classroom component (see 11990 Work Experience Classroom above).

11999 Communication and Audio/Video Technology–Other

(Provide local course description.)

Subject Area 12: Business and Marketing

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) course classifications are written to describe all grades in the K-12 span unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. This subject area has the course classification “Particular Topics” in one or more categories. Use this classification when the local course focuses on a topic or combination of topics that are not specified in other MCCC classifications listed within the category.
2. Some local courses combine two MCCC classifications or topics and no MCCC course exists for that local combination (and there is no Particular Topics in the category). If one of the topics in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that topic. If all topics are of equal focus, use the “Other” course classification at the end of the subject area to classify the local combination and provide a brief description of local course content.
3. **Local IB or AP preparation courses should not be classified under the official IB or AP classifications listed in the MCCC.** They should be classified under the MCCC classification that best describes the content and the course level should be documented as “E” for enriched or honors. Only IB and AP approved curriculum designed for AP and IB can use the AP and IB course classifications.
4. Computer programming courses are listed in **10 Computer and Information Sciences, Category D. Computer Science/Programming.**
5. Career exploration courses in administration and marketing should be classified according to the specific career exploration classifications in those categories. If there is no specific career exploration classification for a category, classify as *12994 Business and Marketing Career Exploration*.
6. Photography and photo imaging courses are listed in **05 Visual and Performing Arts, Category D. Visual Arts** and in **11 Communication and Audio/Visual Technology.**
7. Local courses that introduce students to computer hardware and software components including assembly, configuration and maintenance are best classified as *10254 IT Essentials: PC Hardware and Software*. These courses may also prepare students for industry certification.
8. Courses that include managing a school or model store are probably best classified as *12052 Business Management*.
9. The specific course classification *10201 Web Page Design* is listed in **10 Computer and Information Sciences.**
10. The specific course classification *11152 Desktop Publishing* is listed in **11 Communication and Audio/Visual Technology.**
11. There are distinctions among software and keyboarding courses in **12 Business and Marketing** and **10 Computer and Information Sciences**. If the learning focus of the local course is:
 - a. Keyboarding skills and technique, classify as *12005 Keyboarding*.
 - b. Software programs while improving keyboarding skills, classify as *12006 Word Processing*.
 - c. Software programs but does not include keyboarding skills, classify as *10004 Computer Applications*.
 - d. Software programs specifically for business, classify as *10005 Business Computer Applications*.

III. Business and Marketing course categories

Category	Code Range
A. Administration	12(001)–12(050)
B. Management	12(051)–12(100)
C. Finance	12(101)–12(150)
D. Marketing	12(151)–12(200)
E. Sales	12(201)–12(250)
F. All Others	12(990)–12(999)

A. Administration

12001 Business/Office Career Exploration

Courses in this classification explore occupational opportunities in accounting, administration, data processing, management and secretarial fields. Emphasis is on responsibilities, qualifications, work environment and career paths. Courses may also include keyboard exposure, and/or hands-on experience within various occupational areas.

12002 Office Procedures—Comprehensive

Courses in this classification provide opportunities to understand the responsibilities and duties common of most office personnel. Topics include communication skills, reception and transmission of information via data processing equipment, filing and record management, mail handling, scheduling meetings and conferences, creating itineraries and word processing.

12003 Office and Administrative Technologies

Courses in this classification provide instruction and experience in developing technical, problem-solving, and decision-making skills essential for office and/or administrative occupations. Emphasis is on integrating and applying knowledge and skills to realistic office and administrative situations utilizing current and relevant technology.

12004 Office Services

Courses in this classification introduce and refine clerical and receptionist skills. Topics include filing, telephone, and keyboarding skills; reprographic machinery and procedures; and communications skills.

12005 Keyboarding

Courses in this classification introduce the keyboard, basic machine operation and proper keystroke technique. Focus is on developing speed and accuracy and producing increasingly complex documents. Courses support students in developing document production and problem-solving skills.

12006 Word Processing

Courses in this classification introduce automated document production using one or more software packages. They include keyboarding techniques with a focus on speed and accuracy and a parallel focus on the use of software to create, edit, format and manipulate documents, capitalizing on the word processing software programs. File management and other skills may be included.

12007 Recordkeeping

Courses in this classification develop knowledge and skills related to the principles and procedures in recording personal and small business financial transactions. Topics may include personal banking, budgeting, and income tax calculations as well as cashier and clerk procedures, inventory control for small businesses, database management, merchandising and payroll.

12008 Particular Topics in Administration

Courses in this classification examine specific topics related to business administration not otherwise described, such as a focus on dictation or office machinery, rather than provide a general study of office administration principles and techniques.

12009 Business Communications

Courses in this classification support an understanding and appreciation for effective communication in business environments. Topics include speaking, listening, thinking, responding, reading, writing, communicating nonverbally and utilizing technology. Communication may be practiced through problem-based projects and real-world application.

B. Management

12051 Introductory Business

Courses in this classification offer a survey of business topics. They introduce concepts such as banking and finance, the role of government in business, consumerism, credit, investment and management. They usually include a brief overview of the American economic system and corporate organization, and may explore opportunities in secretarial, accounting, management and related fields.

12052 Business Management

Courses in this classification explore management opportunities and human relations. They develop skills in the planning, staffing, financing, and controlling functions within a business and may explore the macro-level of the business world, including business structure; finance; and interconnections among industry, government and the global economy. Emphasis is on problem-based, real-world applications of business concepts and use of accounting concepts to formulate, analyze, and evaluate business decisions and may include business simulations. This classification includes school or model stores.

12053 Entrepreneurship

Courses in this classification provide the knowledge and skills necessary to own and operate a business. Topics from several fields typically form the content: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communication. Courses may include business simulations.

12054 Business Law

Courses in this classification emphasize legal concepts that are relevant to business. Topics include contracts, buying/renting property, installment buying, insurance, buyer/seller relationships, negotiable instruments, employment, taxes, insurance, commercial papers, legal organizational structures, and consumer liabilities.

12055 Business Principles and Management

Courses in this classification provide an understanding of the American business system, its organizations and its management. They examine the leadership and management styles of successful business organizations, large or small.

12056 International Business and Marketing

Courses in this classification examine business management and administration in a global economy. Topics include export sales, trade controls, foreign operations and related problems, monetary issues, international business and policy with applications in specific countries or markets.

12057 Human Resources and Labor Relations

Courses in this classification analyze functions of conflict resolution and collective bargaining. Topics include the history of the labor movement within the United States, the relationships between management and labor, including how organized labor currently operates.

12058 Human Resources Management

Courses in this classification provide students with an understanding of the effective use of interpersonal skills in achieving the goals of an organization.

12059 IB Business and Management

Courses in this classification prepare students to take the International Baccalaureate Business and Management exams. IB Business Management courses explore business decision-making processes and their relationship to internal and external environments. Course content includes business organization and environment, human resources, accounts and finance, marketing, and operations management.

12060 Business Ethics

Courses in this classification focus on the study of ethical principles and the application of those principles to situations relevant to decision making in the professional and business worlds.

C. Finance

12101 Banking and Finance

Courses in this classification provide an overview of the American monetary and banking system, including financial institutions and their services and products. Content may include government regulations; checking, savings, and money market accounts; loans; investments and negotiable instruments.

12102 Banking

Courses in this classification are similar to Banking and Finance courses but focus specifically on banking. They may examine and apply the methods used for measuring the financial performance of banks as well as examining specialized brokerage products, current issues and future trends in banking.

12103 Finance

Courses in this classification are similar to Banking and Finance courses, but focus specifically on finance, including how businesses raise, distribute and use financial resources while managing risk. Content may include financial decisions, such as borrowing, selling equity or stock, lending or investing.

12104 Accounting

Courses in this classification introduce and expand upon the fundamental accounting principles and procedures used in businesses. Content typically includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students may learn how to apply standard auditing principles and to prepare budgets and final reports. Calculators, electronic spreadsheets, or other automated tools are usually used. Advanced topics may include elementary principles of partnership and corporate accounting and the managerial uses of control systems and the accounting process.

12105 Business Economics

Courses in this classification focus on why societies develop economic systems and identify basic features of different economic systems. They often integrate economic principles, such as free market economy, consumerism, and the role of American government within the economic system with entrepreneurship/business concepts, such as marketing principles, business law and risk. Aspects of personal finance may be included.

12106 Risk Management and Insurance

Courses in this classification analyze risk management techniques from the viewpoints of those employed in the industry as well as of business owners seeking to meet risk management needs. Insurance products are evaluated in relation to cost and effectiveness.

12107 Securities and Investments

Courses in this classification emphasize the formulation of business and individual investment decisions by comparing and contrasting the investment qualities of cash, stocks, bonds and mutual funds. Topics include reviewing annual reports, predicting growth rates and analyzing trends. Stock market simulations may be used.

12108 Personal Finance Management

Courses in this classification examine personal/family resource management. Topics may include, but are not limited to, earning a living, budgeting, saving and investing, buying goods and services, using credit and protecting against risk. They may include financial problem-solving and decision-making.

12109 Business Math

Courses in this classification reinforce math skills in a variety of business applications and emphasize speed and accuracy in computation. Topics may include arithmetic, measurement, statistics, ratio and proportion, exponents, formulas, and simple equations. Applications might include wages, hourly rates, payroll deductions, sales, receipts, accounts payable and receivable, financial reports, discounts and interest.

12110 Particular Topics in Accounting

Courses in this classification focus on a specific type of accounting such as payroll, income tax or cost accounting rather than a general overview of accounting principles and processes described in 12104 Accounting classification above.

D. Marketing

12151 Marketing Career Exploration

Courses in this classification explore careers in marketing, sales, or small business operation, including opportunities in retail, wholesale, advertising, and other occupational fields using marketing principles.

12152 Marketing—Comprehensive

Courses in this classification focus on the flow of goods and services from the producer to the consumer. Topics may include market research, the purchasing process, distribution systems, warehouse and inventory control, salesmanship, sales promotions, shoplifting and theft control, business management, and entrepreneurship. Human relations, computers and economics may be included.

12153 Marketing–Fashion

Courses in this classification are similar to Marketing–Comprehensive courses but focus on the fashion industry. Topics may also include fashion cycles, fashion history, design, style and coordination.

12154 Marketing–Real Estate

Courses in this classification are similar to Marketing–Comprehensive courses but focus on real estate. Topics may also include financing, investment, ownership rights, ethics and other real estate principles.

12155 Marketing–Transportation

Courses in this classification are similar to Marketing–Comprehensive courses but focus on transportation. Topics also include identification and proper use of auto parts and accessories and the sales and service of new and used cars, vans, trucks and related parts.

12156 Marketing–Food/Beverage Industry

Courses in this classification are similar to Marketing–Comprehensive courses but focus on the food and beverage industry. Topics also include the characteristics and functions unique to the food and beverage service industry.

12157 Marketing–Insurance

Courses in this classification are similar to Marketing–Comprehensive courses but focus on the sale or underwriting of accident, health, life, marine, automobile and causality insurance.

12158 Marketing–Floristry

Courses in this classification are similar to Marketing–Comprehensive courses but focus on floristry. Topics also include the unique characteristics and functions of retail and wholesale floral operations.

12159 Marketing–Hospitality/Tourism

Courses in this classification are similar to Marketing–Comprehensive courses but focus on hospitality and tourism. Topics include the unique characteristics and functions of travel services and hotel/motel operations.

12160 Marketing–Merchandising

Courses in this classification provide practical backgrounds in retailing, with emphasis on merchandising, promotion/display, selling and career planning. Content may also include fundamental principles of human relations.

12161 Retail Marketing

Courses in this classification include marketing principles and concepts related to the provision of goods or services directly to the consumer, emphasizing store operation, advertisement and display of goods, store security, human relations, and business management and ownership.

12162 Internet Marketing

Courses in this classification include the principles and functions of marketing and conducting business on the internet. Topics include using the internet as a marketing tool, conducting a marketing analysis via the internet, planning marketing support activities, managing an electronic marketing campaign, managing/owning a business via the internet, and analyzing the impact of the internet on global marketing.

12163 Sports and Entertainment Marketing

Courses in this classification introduce and refine marketing and management skills applied to amateur or professional sports or sporting events, entertainment or entertainment events, and the sales or rental of supplies and equipment.

12164 Principles of Marketing

Courses in this classification examine the flow of goods and services from the producer to the consumer. Content ranges considerably but general marketing principles such as purchasing, distribution and sales are often included, and a major emphasis is on market identification; product planning, packaging, and pricing; and business management.

12165 Principles of Advertising

Courses in this classification examine the concepts underlying the promotion of products. Topics included vary considerably, but typically include advertising psychology, study of various media, advertising planning and budgeting, and advertising layout and design principles. An overview of commercial art and packaging may be included.

12166 Marketing Management

Courses in this classification are similar to Marketing–Comprehensive courses but focus on business management and entrepreneurship, providing exposure to common techniques and problems of management.

12167 Marketing–Other Specialization

Courses in this classification are similar to Marketing–Comprehensive courses but focus on particular industry not specified above. Courses address specific topics related to the particular industry.

12168 Marketing–Commodities

Courses in this classification investigate the meaning and methods of marketing as related to agricultural commodities, products and services, and agricultural goods in domestic and international markets. Topics typically include appropriate market research; benefit/cost analysis of marketing; and methods of targeted agricultural marketing in domestic and international markets.

12169 Social Media Marketing

Courses in this classification address social media as a marketing tool and emphasize social media tools, social media messages, and search engine optimization. Topics may include, but are not limited to, marketing information management (including marketing research), market planning, channel management, sales, promotion, product/service management, and pricing.

E. Sales

12201 Cashier/Checker Operations

Courses in this classification provide the knowledge and skills to operate a cash register and to handle numerous transactions. Topics include cash register procedures; handling cash, credit, checks, food stamps, and other forms of legal tender; human relations; stocking and marking merchandise; and theft prevention. Job search and employability skills are often an integral part of the course.

12202 Principles of Selling

Courses in this classification provide the knowledge and opportunity to develop in-depth sales competencies. Content typically includes types of selling, steps in a sale, sales strategies as well as interpersonal skills and techniques.

F. All Others

12990 Business and Marketing–Work Experience Classroom

Courses in this classification accompany work experience programs (apprenticeships or work-based learning) and typically involve further study of the field and discussion of experiences in the work place.

12991 Business and Marketing–Student Leadership

Courses in this classification develop students' personal and group leadership skills and typically focus on effective communication, decision-making, problem-solving and completion of group activities. Courses may include participation in student organizations such as DECA and Business Professionals of America. Or, all of these activities may be embedded in other business and marketing courses.

12992 Business and Marketing–Apprenticeship

Courses in this classification provide students with supervised workplace training in business and marketing. Goals are typically set cooperatively by the student, school coordinator, and mentor/employer (although students are not necessarily paid). Students' work is evaluated by a school coordinator and the mentor/employer. These courses are accompanied by a classroom component (see 12990 Work Experience Classroom above).

12994 Business and Marketing Career Exploration

Courses in this classification provide an overview of the opportunities in business and marketing careers or focus on one specific area. Emphasis is placed on responsibilities, qualifications, work environment and career paths. They may include hands-on experience within the occupational areas.

12995 Seminar/Project–Business and Marketing

Courses in this classification vary widely, but typically offer opportunities to investigate areas of interest in business and marketing. They may include college and/or career exploration and planning. Students often design a project based on an area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

12996 Business and Marketing–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

12997 Business and Marketing–Independent Study

Courses in this classification, often conducted with instructors or professionals as mentors, enable students to explore business or marketing-related topics of interest. These courses may serve as an opportunity for students to expand their expertise, explore a topic in detail, or develop advanced skills.

12998 Business and Marketing–Work-Based Learning

Courses in this classification provide students with work experience in fields related to business and marketing. Goals are typically set cooperatively by the student, teacher and employer (although students are not necessarily paid). Students' work is supervised and evaluated by a school coordinator and the employer. These courses are accompanied by a classroom component (see 12990 Work Experience Classroom above).

12999 Business and Marketing–Other

(Provide local course description.)

Subject Area 13: Manufacturing

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) course classifications are written to describe all grades in the K-12 span unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. The Manufacturing Subject area has the course classification “Particular Topics” in one or more categories. Use this classification when the local course focuses on a topic or combination of topics that are not specified in other MCCC classifications listed within the category.
2. Some local courses combine two MCCC classifications or topics and no MCCC classification exists for that local combination (and there is no “Particular Topics” in the category). If one of the topics in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that topic. If all topics are of equal focus, use the “Other” course classification at the end of the subject area to classify the local combination and provide a brief description of local course content.
3. The general industrial arts course classification that exposes students to a variety of tools and machines and develops the skills to use them in a variety of applications, such as drawing and planning, electricity, graphic arts, woodworking, leatherworking, metalworking, plastics and power technology is *13003 Industrial Arts*.
4. The creation of a super-mileage car may be classified under various MCCC classifications depending on the focus of the local course. Use the focus of the local course to determine the most appropriate classification.
5. Both **Subject Area 13 Manufacturing** and **Subject Area 17 Architecture and Construction** claim wood processing/woodworking. The course *13054 Wood Processing/Production* includes processing of wood and wood products, but *17006 Woodworking* and *17007 Cabinetmaking* are the more traditional individual, project-based courses.

III. Manufacturing course categories

Category	Code Range
A. Manufacturing Technology	13(001)–13(050)
B. Processing/Production	13(051)–13(100)
C. Production Systems	13(101)–13(200)
D. Metalwork	13(201)–13(300)
E. Repair	13(301)–13(400)
F. All Others	13(990)–13(999)

A. Manufacturing Technology

13001 Exploration of Manufacturing Occupations

Courses in this classification examine career opportunities in the processing and production of goods. Topics vary and may include systems pertinent to the manufacturing process, properties of various raw materials, and the methods used to transform materials into consumer products. Entrepreneurship, labor laws and customer service may be included.

13002 Manufacturing—Comprehensive

Courses in this classification introduce various methods of processing and transforming materials. Techniques include casting, forming, separating, assembling and finishing. Courses may also include an overview of management techniques in planning, organizing, and controlling various segments of the manufacturing process, including design, engineering, production and marketing.

13003 Industrial Arts

Courses in this classification explore tools and machines in manufacturing-related occupations and enable students to develop the skills in using these tools in various applications. Topics include drawing and planning, electricity, graphic arts, woodwork, leatherwork, metalwork, plastics and power technology. These courses typically include general safety and career exploration as well.

B. Processing/Production

13052 Materials and Processes

Courses in this classification explore tools, machines, and processes that are encountered in manufacturing-related occupations. They stress the analysis, testing, and processing of metals, plastics, woods, ceramics and composite materials.

13053 Metal and Wood Processing/Production

Courses in this classification examine the properties of metals, woods, and composites and using these materials to construct usable products. These courses enable students to experience the process of translating an idea into a finished product, with instruction in planning, designing, selecting materials, and using tools and machines.

13054 Wood Processing/Production

Courses in this classification are similar to Metal and Wood Processing/Production but focus on woods and composites made from woods.

13055 Metal Processing/Production

Courses in this classification are similar to Metal and Wood Processing/Production but focus on metals and metal alloys.

13056 Plastics Processing/Production

Courses in this classification are similar to Metal and Wood Processing/Production but focus on plastics and composites.

13057 Ceramic Processing/Production

Courses in this classification are similar to Metal and Wood Processing/Production but focus on ceramics and heat-resistant composites.

13058 Particular Topics in Processing and Production

Courses in this classification examine specific topics in processing and production, such as substance analysis, other than those already described.

C. Production Systems

13101 Production Systems

Courses in this classification provide knowledge and skills related to manufacturing technologies from conception through production. Topics vary widely but typically include analyzing markets, designing and developing prototypes, planning a marketing or sales strategy, managing a production plan and manufacturing useful products. They may explore the evolution and impact of technology on society's social, cultural, and economic systems and institutions.

13102 Electro–Mechanical Systems

Courses in this classification provide instruction and experience in components and equipment that use electricity and the power of physical forces. Students gain understanding of the principles of electricity and mechanics and their application to gears, cams, levers, circuits and other devices used in the manufacturing process or within manufactured goods.

13103 Product Development

Courses in this classification provide opportunity to focus on one or more areas of industrial technology, creatively pursue new knowledge or solve a technological problem, by designing and building prototypes and working models.

D. Metalwork

13201 Metalwork Occupations

Courses in this classification provide theoretical principles and laboratory experiences related to the planning, manufacturing, assembling, testing and repairing of parts, mechanisms and structures in which materials are cast, formed, treated, cut, fused or otherwise processed.

13202 Metalworking

Courses in this classification introduce the qualities and applications of various metals and the tools used to manipulate and form metal into products. Focus is on the development of planning, layout and measurement skills; experience in cutting, bending, forging, casting, and/or welding metal; and completing projects according to blueprints or other specifications. Polishing and finishing metals may be included.

13203 Machining

Courses in this classification provide opportunity to create metal parts using various machine tools and equipment. Content includes interpreting specifications for machines using blueprints, sketches or descriptions of parts; preparing and using lathes, milling machines, shapers, and grinders with skill, safety and precision; developing part specifications; and selecting appropriate materials.

13204 Particular Topics in Machining

Courses in this classification examine specific topics related to machining, emphasizing a particular type of machine, tool or procedure, or concentrating on a particular application of machining techniques.

13205 Sheet Metal

Courses in this classification develop the skills and knowledge necessary to layout, fabricate, assemble, install, maintain, and repair items and structures created from sheet metal components. Skills in blueprint reading, welding, and finishing and polishing metals as well as safe operation of tools may be included.

13206 Particular Topics in Sheet Metal

Courses in this classification provide knowledge and skills in particular aspects of sheet metal. Examples include individual courses in radial line development and triangulation fabrication.

13207 Welding

Courses in this classification provide the knowledge of the properties, uses and applications of various metals; support development of skills in various processes used to join and cut metals, such as oxyacetylene, shielded metal, metal inert gas, and tungsten arc processes; and offer experience in identifying, selecting and rating appropriate techniques. These courses often include instruction in interpreting blueprints or other types of specifications.

13208 Particular Topics in Welding

Courses in this classification provide students with knowledge and skills in particular aspects of welding. Examples include individual courses in each of the following types of welding: gas metal, gas tungsten, and shielded metal and flux core arc welding.

13209 Particular Topics in Metalwork

Courses in this classification provide students with knowledge and skills in particular aspects of metalwork, such as foundry work or metallurgy not otherwise described.

E. Repair

13301 Appliance Repair

Courses in this classification provide the knowledge and experience to repair, install, service and inspect appliances such as stoves, refrigerators, washers, dryers, air conditioners and water heaters. Topics include understanding of the mechanics and working systems of these appliances, skills to read blueprints and specifications, and proficiency in using related tools and products.

13302 Equipment Maintenance and Repair

Courses in this classification develop skills to adjust, replace and repair machine parts as well as repair tools, equipment and machines. They include a general overview or focus machinery or equipment related to a particular industry. Topics may include electric, hydraulic, or mechanic systems; control devices, valves and gates; or supplemental equipment such as fans, hoses and pipes.

13303 Industrial Maintenance

Courses in this classification introduce the care and maintenance of a wide range of industrial equipment. Course topics may include lubricants and lubrication, replacement of seals and bearings and the selection and use of hand and power tools. Additional topics may include motor alignment using laser alignment, milling and turning operations, welding, technical drawings and quality control.

F. All Others

13990 Manufacturing–Work Experience Classroom

Courses in this classification accompany work experience programs (apprenticeships or work-based learning) and typically involve further study of the field and discussion of experiences in the workplace.

13991 Manufacturing–Student Leadership

Courses in this classification develop students' personal and group leadership skills and typically focus on effective communication, decision-making, problem-solving and completion of group activities. Courses may include participation in student organizations, such as SkillsUSA. Or, all of these activities may be embedded in other manufacturing courses.

13992 Manufacturing–Apprenticeship

Courses in this classification provide students with supervised workplace training in manufacturing. Goals are typically set cooperatively by the student, school coordinator, and mentor/employer (although students are not necessarily paid). Students' work is evaluated by a school coordinator and the mentor/employer. These courses are accompanied by a classroom component (see 13990 Work Experience Classroom above).

13995 Manufacturing–Aide

Courses in this classification offer interested students the opportunity to assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

13996 Seminar/Project–Manufacturing

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in manufacturing. They may include college and/or career exploration and planning. Students often design a project based on their areas of interest and may work with a mentor. Course objectives may include (but are not limited to) improvement of research, presentation and communication, interpersonal skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

13997 Manufacturing–Independent Study

Courses in this classification, often conducted with instructors as mentors, enable students to explore topics of interest related to manufacturing. These courses may serve as an opportunity for students to expand their expertise, explore a topic in detail or develop advanced skills.

13998 Manufacturing–Work-Based Learning

Courses in this classification provide students with work experience in fields related to manufacturing processing and production. Goals are typically set cooperatively by the student, teacher and employer (although students are not necessarily paid). Students' work is supervised and evaluated by a school coordinator and the employer. These courses are accompanied by a classroom component (see 13990 Work Experience Classroom above).

13999 Manufacturing–Other

(Provide local course description.)

Subject Area 14: Health Care Sciences

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) course classifications are written to describe all grades in the K-12 span unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. This subject area has the course classification “Particular Topics” in one or more categories. Use this classification when the local course focuses on a topic or combined topics that are not specified in other MCCC classifications listed within the category.
2. Some local courses combine two MCCC classifications or topics and no MCCC classification exists for that particular combination (and there is no “Particular Topics” in the category). If one of the topics in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that particular topic. If all topics are of equal focus, use the “Other” classification at the end of the subject area to classify the local combination and provide a brief description of local course content.
3. Only official Project Lead The Way™ (PLTW) sites may use the PLTW classifications. Local courses that follow PLTW curriculum but are not offered through an official site may not be classified under designated PLTW classifications. Classify them under other MCCC classifications that describe the local course content, including classifications such as 14258 Particular Topics in Health Sciences.

III. Health Care Science course categories

Category	Code Range
A. Comprehensive	14(001)–14(050)
B. Therapeutic Services	14(051)–14(100)
C. Diagnostic Services	14(101)–14(150)
D. Health Information	14(151)–14(200)
E. Support Services	14(201)–14(250)
F. Health Sciences	14(251)–14(300)
G. All Others	14(990)–14(999)

A. Comprehensive

14001 Exploration of Health Care Occupations

Courses in this classification explore career opportunities in the health care industry, such as nursing, therapy, dental care, administrative services and lab technology. They provide information and knowledge in the industry as a whole and experiences in several of these occupational clusters.

14002 Health Care Occupations—Comprehensive

Courses in this classification provide an orientation to the health care industry and help refine students' health care-related knowledge and skills. Topics include 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.

14003 Medical Law and Ethics

Courses in this classification introduce the principles of medical law, ethics and bioethics. Courses emphasize the function of law and ethical issues as it applies to the medical environment.

B. Therapeutic Services

14051 Nursing

Courses in this classification focus on the particular knowledge and skills required of nurses and/or nursing assistants and aides including general health care topics, such as patient care, anatomy and physiology, medical terminology, hygiene and disease prevention, first aid and CPR, and laboratory procedures. Topics may include normal growth and development; bathing, feeding, dressing and transporting patients; basic pharmacology; doctor, nurse and patient relationships and roles; medical and professional ethics and legal responsibilities; death and dying; and care of various kinds of patients, such as the chronically ill, children and new mothers.

14052 Nursing—LPN

Courses in this classification are similar to the nursing courses above, but the focus is preparation for the state's practical nurse licensing examination. They offer the knowledge and experience needed to provide care for patients of all ages, in various stages of sickness or health, and with a variety of disease conditions. Additional topics may include community health, nutrition, drug therapy and administration and mental illness.

14053 Home Health Care

Courses in this classification teach the practices and procedures to care for patients in their homes and typically includes patient care, comfort and safety; anatomy and physiology; disease and infection prevention; nutrition and meal preparation; human relations; and first aid and CPR. Topics may also include therapy strategies and household management.

14054 Dental Science

Courses in this classification explore the tools, terminology, and procedures necessary for a career in the dental industry. Content includes dental anatomy and terminology; identification and use of dental equipment; dental pathologies and procedures; asepsis; dental laboratory procedures; emergency first aid; and the ethical and legal responsibilities of dental care workers. These courses often explore dental specialties and career options.

14055 Emergency Medical Technology

Courses in this classification focus on the knowledge and skills needed in medical emergencies. Topics include clearing airway obstructions, controlling bleeding, bandaging, methods for lifting and transporting injured persons, simple spinal immobilization, infection control, stabilizing fractures, and responding to cardiac arrest. Courses may also include legal and ethical responsibilities in dealing with medical emergencies.

14056 Surgical Technology

Courses in this classification emphasize the care and needs of patients undergoing surgery while covering general health care topics (i.e., patient care, anatomy and physiology, medical terminology, hygiene and disease prevention, first aid and CPR, and laboratory procedures). In keeping with that focus, topics may include operation room materials, tools, and procedures; aseptic surgical techniques; preparation and handling of surgical instruments; efficiency in the operating room; and the roles of various medical personnel who are present during surgery.

14057 Vision Care

Courses in this classification explore the tools, terminology and procedures necessary for optometric or optic field careers. Topics include physics of light and refraction; anatomy, physiology and terminology associated with the eyes; identification and use of optometric and/or optical equipment; optical procedures; human relations; and the ethical and legal responsibilities of vision care workers.

14058 Optometrics

Courses in this classification provide the knowledge and skills to prepare, assemble and/or fit corrective lenses prescribed by a physician or optometrist. Topics include layout and marking, cutting and chipping, edging and beveling, inspection, alignment, dispensing and selection of eyewear.

14059 Gerontology

Courses in this classification provide knowledge and understanding of the processes of adult development and aging. Topics include the study of the biological, economic, psychological, social and health/fitness aspects of the aging process.

14060 Physical Therapy

Courses in this classification provide knowledge and skills to work with patients who need to achieve and maintain functional rehabilitation and to prevent malfunction or deformity. Topics include therapeutic exercises and activities, such as stretching and strengthening, how to train patients to perform the activities of daily living, the use of special equipment, and evaluation of patient progress.

14061 Respiratory Therapy

Courses in this classification provide knowledge and skills to work with patients who have breathing or other cardiopulmonary difficulties or disorders. Topics include identifying deficiencies and abnormalities of the cardiopulmonary system as well as understanding various methods of therapies and use of special equipment.

14062 Sports Medicine

Courses in this classification provide knowledge and skills to understand and perform therapeutic tasks designated by an athletic or fitness trainer. Topics include taping and bandaging, proper use of protective padding, treatment modalities, anatomy and physiology, and medical terminology. Measuring cardio-respiratory endurance, muscular strength and endurance, flexibility, body composition, and blood pressure may be included. Advanced topics include injury assessment, phases of healing, and use of exercise and equipment to help in the reconditioning of injured athletes.

14063 Particular Topics in Therapeutic Services

Courses in this classification examine particular topics in medical therapeutic services, such as job shadowing and basic clinical skills practice, other than those already described.

C. Diagnostic Services

14101 Dental Laboratory Technology

Courses in this classification examine the principals, tools, terminology and procedures for a career in a dental laboratory. They are similar to Dental Science course, but emphasize making mouth guards, taking impressions, creating various types of dental molds and models, and fabricating prostheses and dental appliances.

14102 Medical Lab Technology

Courses in this classification provide knowledge and skills for employment in health care-related laboratories. Topics include basic principles of anatomy and physiology, relevant concepts in microbiology and chemistry, and laboratory techniques, including preparation and analysis of various cultures and specimens. Venipuncture, EKG, and CPR procedures may also be included.

14103 EKG Technology

Courses in this classification develop the knowledge and skills to perform electrocardiograph (EKG) activities and learn about the cardiovascular system, including its function, diseases, and rhythms; EKG machinery; and the use of drugs and their effects. General health care as well as basic anatomy and physiology, patient care, first aid and CPR, identification and use of medical equipment and medical terminology may be included.

14104 Phlebotomy

Courses in this classification provide knowledge, skills and experiences related to drawing blood. Topics include infection control, sterilization practices, medical/hospital procedures and environments and diagnostic procedures.

14105 Particular Topics in Diagnostic Services

Courses in this classification examine particular topics in diagnostic services other than those already described.

D. Health Information

14151 Medical/Clerical Assisting

Courses in this classification combine the medical and clerical fields. They develop skills in patient exam preparation, assessment of vital signs, routine lab procedures, medical transcription, financial accounting, patient and insurance company billing, and recordkeeping.

14152 Pharmacy Assisting

Courses in this classification emphasize the knowledge and skills to assist a pharmacist or pharmacy technician. Topics include medical terminology, keeping and maintaining records, labeling medications, computer patient billing, stock inventory and supply ordering. They also emphasize pharmaceutical classification, drug interactions and interpersonal/communication skills.

14153 Medical Office Procedures

Courses in this classification develop clerical knowledge, skills and procedures in the medical field. They include topics such as medical transcription, medical insurance, financial accounting, scheduling and patient record keeping. Medical terminology and routine medical procedures are often included.

14154 Medical Terminology

Courses in this classification support students in identifying medical terms by analyzing their components. These courses emphasize defining medical prefixes, root words, suffixes and abbreviations as well as developing both oral and written skills to communicate within the health care professions.

14155 Particular Topics in Health Information

Courses in this classification examine particular topics in health information other than those already described.

14156 Medical Coding and Transcription

Courses in this classification introduce the International Classification of Diseases, Clinical Modification and its system of hospital codes for diagnoses and procedures. Courses provide opportunities to practice and develop skills in the use of transcription equipment as well as familiarity with common formats of medical terminology and reports.

14157 Health Informatics and Data Management

Courses in this classification introduce automated information systems in the health care delivery system. Course content includes terminology and essential concepts of health information systems and management of data, including the purpose, content and structure of health data; numbering and filing systems, storage and retention methods; and the construction and design of forms, records, indexes and registers. Courses may also examine data integrity, privacy/security issues, and the purposes of accreditation and regulatory standards in developing health record practice guidelines.

E. Support Services

14201 Central Service Technology

Courses in this classification provide knowledge and skills related to the procurement, handling, storage and distribution of sterile goods and equipment. Topics usually include quality assurance, infection control and isolation techniques, medical terminology and processes, decontamination and sterilization, microbiology, and chemistry.

14202 Health Support Services

Courses in this classification provide knowledge and skills to support patients' primary health care, such as counseling, health education, disease management and risk reduction. Support services are broadly defined and topics may include general health care, anatomy and physiology, medical terminology, first aid and CPR procedures, and ethical and legal responsibilities.

14203 Health Unit Coordination

Courses in this classification provide instruction and experiences in non-patient care activities in health care facilities. Topics include medical terminology, transcription, and general reception duties and responsibilities; recordkeeping; and stocking medical and office supplies and equipment.

14204 Particular Topics in Health Support Services

Courses in this classification examine particular topics in health support services other than those described.

F. Health Sciences

14251 Health Science

Courses in this classification integrate chemistry, microbiology, chemical reactions, disease processes, growth and development, and genetics with anatomy and physiology of the body systems. Typically, these courses reinforce science, mathematics, communications, health and social studies principles and relate them to health care.

14252 Biotechnology

Courses in this classification involve the study of the bioprocesses of organisms, cells, and/or their components and use of this knowledge to produce or refine products, procedures, and techniques. Course topics typically include laboratory measurement, monitoring and calculation; growth and reproduction; chemistry and biology of living systems; quantitative problem-solving; data acquisition and display and ethics. Advanced topics may include elements of biochemistry, genetics, and protein purification techniques.

14253 Pharmacology

Courses in this classification examine how living animals are changed by chemical substances, especially by the actions of drugs and other substances used to treat disease. Basic concepts of physiology, pathology, biochemistry and bacteriology are typically included as students examine the effects of drugs and their mechanisms of action.

14254 PLTW–Principles of the Biomedical Sciences™

Courses in this classification adhere to the PLTW curriculum and are offered at an official PLTW site. They examine human medicine concepts and introduce research processes and bioinformatics. Topics include investigation of the human body systems and various health conditions such as heart disease, diabetes, sickle-cell disease and infectious diseases. Courses provide an overview of the biomedical sciences and lay the scientific foundation for success in subsequent biomedical sciences course work.

14255 PLTW–Human Body Systems™

Courses in this classification adhere to the PLTW curriculum and are offered at an official PLTW site. They examine the processes, structures and interactions of the human body systems and how they work together to maintain internal balance and good health. They typically offer students the opportunity to work on real world medical cases and solve medical mysteries.

14256 PLTW–Medical Interventions™

Courses in this classification adhere to the PLTW curriculum and are offered at an official PLTW site. They support investigation of a variety of interventions that prevent, diagnose and treat disease in the lives of a fictitious family. The interventions are tracked across generations of the family and provide a look at the past, present and future of biomedical science.

14257 PLTW–Biomedical Innovations™

Courses in this classification adhere to the PLTW curriculum and are offered at an official PLTW site. They provide knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for 21st Century health challenges. They may work with a professional health mentor or advisor.

14258 Particular Topics in Health Sciences

Courses in this classification examine particular topics in health sciences other than those already described.

14259 Biomedical Innovations

Courses in this classification promote the knowledge and skills to answer questions or solve problems related to the biomedical sciences, including solutions for emerging health challenges. Topics may include clinical medicine, human physiology, medical innovation, water contamination, public health, molecular biology and forensic autopsy.

G. All Others

14990 Health Care Sciences–Work Experience Classroom

Courses in this classification accompany work experience programs (apprenticeships or work-based learning) and typically involve further study of the field and discussion of experiences in the workplace.

14991 Health Care Sciences–Student Leadership

Courses in this classification develop students' personal and professional leadership skills and typically focus on effective communication, decision-making, problem-solving and completion of group activities. Courses may include participation in student organizations such as Health Occupations Students of America (HOSA). Or, all of these activities may be embedded in other health service courses.

14992 Health Care Sciences–Apprenticeship

Courses in this classification provide students with supervised workplace training in health care sciences. Goals are typically set cooperatively by the student, school coordinator, and mentor/employer (although students are not necessarily paid). Students' work is evaluated by a school coordinator and the mentor/employer. These courses are accompanied by a classroom component (see 14990 Work Experience Classroom above).

14995 Health Care Sciences–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

14996 Seminar/Project–Health Care Sciences

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in health care sciences. They may include college and/or career exploration and planning. Students often design a project based on an area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior or exit projects required for graduation.

14997 Health Care Sciences–Independent Study

Courses in this classification, often conducted with instructors or health care professionals as mentors, enable students to explore healthcare-related topics of interest. These courses provide students with an opportunity to expand their expertise, to explore a topic in detail, or to develop advanced skills.

14998 Health Care Sciences–Work-Based Learning

Courses in this classification provide students with work experience in the health care industry. Goals are typically set cooperatively by the student, teacher and employer (although students are not necessarily paid). Students' work is supervised and evaluated by a school coordinator and the employer. These courses are accompanied by a classroom component (see 14990 Work Experience Classroom above).

14999 Health Care Sciences–Other

(Provide local course description.)

Subject Area 15: Public, Protective and Government Services

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) course classifications are written to describe all grades in the K-12 span unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. This subject area has the course classification “Particular Topics” in one or more categories. Use this classification when local courses focus on a topic or combination topics that are not specified in other MCCC classifications listed within the category.
2. Some local courses combine two MCCC course classifications or topics and no MCCC classification exists for that local combination (and there is no “Particular Topics” in the category). If one of the topics in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that topic. If topics are of equal focus, classify the local combination under the “Other” classification at the end of the Subject area and provide a brief description of the local course content.

III. Public, Protective and Government Services course categories

Category	Code Range
A. Public Service Careers	01(001)–01(050)
B. Law Enforcement	01(051)–01(100)
C. Security and Protection	01(101)–01(150)
D. Fire Management	01(151)–01(200)
E. Government Services	01(201)–01(250)
F. All Others	01(990)–01(999)

A. Public Service Careers

15001 Exploration of Public Service Careers

Courses in this classification examine the responsibilities, requirements and career opportunities within public service. 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 explored.

B. Law Enforcement

15051 Criminal Justice

Courses in this classification support students in understanding and applying the principles and procedures essential to the U.S. criminal justice system. They explore the principles and structure of the justice system and the law. Topics include investigation, search and arrest, and laboratory, forensic and trial procedures. CPR and first aid skills, personal defense tactics and crime prevention techniques may be included.

15052 Corrections

Courses in this classification provide instruction regarding the principles and techniques used by institutions that incarcerate, rehabilitate, and monitor people accused or convicted of crimes.

15053 Particular Topics in Law Enforcement

Courses in this classification examine specific topics related to law enforcement rather than provide a general study of the field.

15054 Law Enforcement

Courses in this classification provide an overview of the history, organization and functions of local, state and federal law enforcement and the foundation skills necessary to fulfill law enforcement duties. Topics vary and may include the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, physical fitness and self-defense. Additional topics may include specific types of crimes, ethical and legal responsibilities, crime scene investigations, emergency medical procedures, use of force and prisoner transport.

15055 Forensic Science

Courses in this classification provide an overview of the theoretical understanding and practical application of forensic science techniques. They explore the applied science of biology, chemistry and physics with crime investigation. Topics typically included are genetics, anthropology, toxicology, entomology, ballistics, pathology, computer forensics, fire debris and trace evidence.

15056 Crime Scene Management

Courses in this classification provide the skills and knowledge necessary for criminalistics—the securing, investigation and processing of a crime scene. Topics typically included are evidence collection and preservation, finger printing, sketching, securing and photographing the crime scene and chain of custody.

15057 Criminal Law and Procedures

Courses in this classification provide the knowledge and skills related to understanding criminal law, constitutional amendments and due process. Course content may include specific types of crimes, such as vehicular, personal, domestic, cyber and drug crimes as well as crimes related to child pornography or pedophiles.

15058 Ethics in Criminal Justice

Courses in this classification examine ethical standards and codes of professional behavior for police officers and others placed in positions of public trust. Topics may include use of force, gratuities, intra- and inter-agency conduct, integrity, ethical necessity of due process, and on-duty and off-duty conduct.

C. Security and Protection

15101 Public Safety

Courses in this classification introduce public safety and extend students' knowledge and skills pertaining to the safety and security of homes, workplaces and the community. Topics include all or a subset of policing, law enforcement, emergency services, private security and corrections.

15102 Security Services

Courses in this classification provide instruction regarding the safety and security of buildings and facilities and may extend these lessons to include the security and safety of one's self and other human beings.

15103 Particular Topics in Security

Courses in this classification examine specific topics related to security and protective services, rather than provide a general study.

15104 Public Safety Telecommunications

Courses in this classification provide the skills and knowledge necessary to obtain national certification in Public Safety Telecommunications and/or employment as a 911 telecommunicator. Topics often include understanding standard federal, state and local telecommunications operating procedures; functions, terminology and types of telecommunication equipment; malfunctions and maintenance agreements; proper and correct telephone and dispatching procedures and techniques; emergency situations and operating procedures; and emergency medical dispatch procedures.

D. Fire Management

15151 Fire Science

Courses in this classification introduce the field of fire prevention and control through examination of chemical, physical, and engineering principles factors involved in fires. Topics include the combustion chemistry, structural design and meteorological factors that influence fire and safety procedures.

15152 Fire Fighting

Courses in this classification offer practice in fire prevention and control under controlled conditions. Topics include the organization, rules, requirements, and regulations of fire departments; practice with tools and techniques used to control or extinguish fires; and the behavior of fires. Emergency medical procedures and fire investigation techniques may also be included.

15153 Particular Topics in Fire Management

Courses in this classification examine specific topics related to fire management, such as hazardous materials handling not otherwise described or provided in the general study of the field.

E. Government Service

15201 Public Administration

Courses in this classification provide an overview of the structure, roles, and duties of public governments and agencies. They examine the foundation and evolution of the public service sector, issues related to the provision of services by governmental bodies, and the missions and constraints of departments within local and state governments. Particular topics, such as tax base and structure, legislative process, selection of public servants and resource management may be included.

15202 Community Protection

Courses in this classification provide information concerning the personnel and agencies charged with protection of homes, cities, states, and the nation. Topics include civil defense and disaster preparedness; crime prevention; pollution control; fire prevention and control; legal and social systems and principles; and public health. Topics may be explored from the viewpoint of a citizen using services or of that of a person interested in pursuing a public service career.

15203 Public Policy

Courses in this classification provide the opportunity to design, propose, and analyze programs and policies implemented by government agencies. Activities include identifying social issues and problems, generating recommendations, using data to quantify the extent of a problem or evaluate its solution, communicating ideas and findings, and understanding decision-making processes.

F. All Others

15990 Public, Protective and Government Service–Work Experience Classroom

Courses in this classification accompany work experience programs (apprenticeships or work-based learning) and typically involve further study of the field and discussion of experiences in the workplace.

15991 Public, Protective and Government Service–Student Leadership

Courses in this classification develop students' personal and group leadership skills and typically focus on effective communication, decision-making, problem-solving and completion of group activities. Courses may include participation in student organizations, such as SkillsUSA. Or, all of these activities may be embedded in other public, protective and government services courses.

15992 Public, Protective and Government Service–Apprenticeship

Courses in this classification provide students with supervised workplace training in public, protective and government service. Goals are typically set cooperatively by the student, school coordinator, and mentor/employer (although students are not necessarily paid). Students' work is evaluated by a school coordinator and the mentor/employer. These courses are accompanied by a classroom component (see 15990 Work Experience Classroom above).

15995 Public, Protective and Government Service–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

15996 Seminar/Project–Public, Protective and Government Service

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in public, protective and government service. They may include college and/or career exploration and planning. Students often design a project based on their areas of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication, interpersonal skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit and other projects required for graduation.

15997 Public, Protective and Government Service–Independent Study

Courses in this classification, often conducted with instructors or service professionals as mentors, enable students to explore topics of interest related to public, protective and government service. These courses serve as an opportunity for students to expand their expertise, explore a topic in detail or develop advanced skills.

15998 Public, Protective and Government Service–Work-Based Learning

Courses in this classification provide students with work experience in a field related to public, protective, and/or government service. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). Students' work is supervised and evaluated by a school coordinator and the employer. These courses are accompanied by a classroom component (see 15990 Work Experience Classroom above).

15999 Public, Protective and Government Service–Other

(Provide local course description.)

Subject Area 16: Hospitality and Tourism

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) course classifications are written to describe all grades in the K-12 span unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. This subject area has the course classification “Particular Topics” in one or more categories. Use this classification when local courses focus on a topic or combination topics that is not specified in other MCCC classifications listed within the category.
2. Some local courses combine two MCCC course classifications or topics and no MCCC classification exists for that local combination (and there is no “Particular Topics” in the category). If one of the topics in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that topic. If all topics are of equal focus, use the “Other” classification at the end of the subject area to classify the local combination and provide a brief description of local course content.

III. Hospitality and Tourism course categories

Category	Code Range
A. Comprehensive	16(001)–16(050)
B. Restaurant, Food and Beverage Service	16(051)–16(100)
C. Lodging	16(101)–16(150)
D. Travel and Tourism	16(151)–16(200)
E. Recreation, Amusement and Attractions	16(201)–16(250)
F. All Others	16(990)–16(999)

A. Comprehensive

16001 Exploration of Hospitality Careers

Courses in this classification explore career opportunities in the hospitality fields, such as food service, lodging, tourism and recreation. They survey a range of topics and serve to introduce students to the field of hospitality and provide an opportunity to identify a focus for continued study.

16002 Hospitality Business/Management–Comprehensive

Courses in this classification provide knowledge and skills related to the issues and concepts of managing businesses in the hospitality industry. Topics may include, but are not limited to, guest relations, operations, services, staffing, facilities, finance, and leadership and management styles.

B. Restaurant, Food and Beverage Services

16051 Exploration of Restaurant, Food, and Beverage Services

Courses in this classification provide an overview of the restaurant, food, and beverage service industry. Topics include industry terminology, the history of restaurant, food, and beverage services, introduction to marketing, and various careers in the industry.

16052 Restaurant, Food, and Beverage Services—Comprehensive

Courses in this classification provide knowledge and skills related to commercial and institutional food service establishments. Topics range widely, but usually include sanitation and safety procedures, nutrition and dietary guidelines, food preparation, quantity food production, meal planning and presentation. They may include both “back-of-the-house” and “front-of-the-house” experiences, such as reservation systems, customer service and restaurant/business management.

16053 Food Service

Courses in this classification provide instruction regarding nutrition, principles of healthy eating, and the preparation of food. Topics include large-scale meal preparation, preserving nutrients throughout the food preparation process, use and care of commercial cooking equipment, food storage, advances in food technology, sanitation, management and careers in the food service industry.

16054 Nutrition and Food Preparation

Courses in this classification provide knowledge and skills about food preparation and/or production, with emphasis on nutrition, balanced diets, and satisfying special dietary needs. Topics may include assessing nutrient content, the science of food and nutrition, physiology and utilization of nutrients. Content may also cover additives, contaminants, food-borne illnesses, food technology and careers in the food industry.

16055 Restaurant Management and Operations

Courses in this classification provide knowledge and skills related to commercial and institutional food service establishments with an emphasis on management. Topics include guest service and relationships, planning, resource management and other topics related to managing and operating restaurants.

16056 Culinary Art Specialty

Courses in this classification provide instruction in a particular type of cooking or culinary style. Examples include baking, creating and decorating wedding cakes and Middle Eastern cuisine. They emphasize skills specific to the type of culinary art studied.

16057 Particular Topics in Restaurant, Food, and Beverage Services

Courses in this classification examine specific topics, such as catering, rather than provide a general study of the industry or of specific topics previously described.

C. Lodging

16101 Exploration of Lodging Careers

Courses in this classification provide an overview of the lodging industry. Topics include lodging terminology, history of lodging, introduction to marketing and various careers in the lodging industry.

16102 Lodging–Comprehensive

Courses in this classification introduce the lodging industry and refine students' related knowledge and skills. Topics include property management, guest psychology and relationships, lodging operations, food and beverage services and other topics related to lodging support services.

16103 Institutional Maintenance

Courses in this classification develop knowledge and skills required for service work. Topics include housekeeping and laundry services, care and cleaning of facilities, safety and sanitation procedures, business responsibilities and ongoing maintenance. Career opportunities may be included.

16104 Particular Topics in Lodging

Courses in this classification examine specific topics in lodging such as convention planning or hotel management rather than provide a general study of the industry or of specific topics previously described.

D. Travel and Tourism

16151 Introduction to Travel and Tourism

Courses provide an overview of the travel and tourism industry. Topics include terminology, history of travel, introduction to marketing, and careers available in travel and tourism.

16152 Travel and Tourism–Comprehensive

Courses in this classification develop the knowledge and skills to work in the travel industry, such as sales techniques, marketing principles and entrepreneurial skills. Additional skills typically include travel agency procedures, airline reservation systems, public relations, hotel/motel registration systems and services, and conference and convention planning.

16153 World Travel and Tourism

Courses in this classification develop the knowledge and skills necessary to work in the travel industry, with a focus on travel outside of the United States. Topics include geography; customs, cultures, and tourist destinations in other countries; and special documentation needed for international travel.

16154 Eco-Tourism

Courses in this classification develop the knowledge and skills to work in the travel industry, with emphasis on conservation and environmental issues. Topics may include recreational opportunities related to on- and off-site attractions and environmental and ecological principles.

16155 Particular Topics in Travel and Tourism

Courses in this classification examine specific topics such as the airline reservation and ticketing system rather than provide a general study of the industry or of specific topics previously described.

E. Recreation, Amusement and Attractions

16201 Exploration of Recreation, Amusement and Attractions

Courses in this classification provide an overview of the recreation industry. Topics include industry terminology; history of recreation, amusement, and attractions; marketing; and various careers in the industry.

16202 Recreation, Amusement and Attractions–Comprehensive

Courses in this classification develop the attitudes, skills, and knowledge needed for employment in theme parks, attractions and outdoor recreation facilities, exhibitions, and event planning. Topics include planning trade shows, fairs, and conferences; outdoor recreation and management; financial transactions; salesmanship; guest services and satisfaction; culture and customs; computer and industry technology; eco-tourism; client information; and planning specialized events while incorporating themes, timelines, budgets, target audiences, agendas and public relations.

16203 Particular Topics in Recreation, Amusement and Attractions

Courses in this classification examine specific topics, such as local opportunities rather than provide a general study of the industry.

F. All Others

16990 Hospitality and Tourism–Work Experience Classroom

Courses in this classification accompany work experience programs (apprenticeships or work-based learning) and typically involve further study of the field and discussion of experiences in the workplace.

16991 Hospitality and Tourism–Student Leadership

Courses in this classification develop students' personal and group leadership skills and typically focus on effective communication, decision-making, problem-solving and completion of group activities. Courses may include participation in recognized career and technology education student organizations, such as SkillsUSA. Or, all of these activities may be embedded in other hospitality and tourism courses.

16992 Hospitality and Tourism–Apprenticeship

Courses in this classification provide students with supervised workplace training in hospitality and tourism. Goals are typically set cooperatively by the student, school coordinator and mentor/employer (although students are not necessarily paid). Students' work is evaluated by the school coordinator and mentor/employer. These courses are accompanied by a classroom component (see 16990 Work Experience Classroom above).

16995 Hospitality and Tourism–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

16996 Seminar/Project–Hospitality and Tourism

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in hospitality and tourism. They may include college and/or career exploration and planning. Students often design a project based on their areas of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication, interpersonal skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit and other projects required for graduation.

16997 Hospitality and Tourism–Independent Study

Courses in this classification, often conducted with instructors as mentors, enable students to explore topics of interest within the hospitality and tourism industry. These courses may serve as an opportunity for students to expand their expertise, explore a topic in detail, or develop advanced skills.

16998 Hospitality and Tourism–Work-Based Learning

Courses in this classification provide work experience in fields related to hospitality and tourism. Goals are typically set cooperatively by the student, school coordinator, and employer (although students are not necessarily paid). Students' work is supervised and evaluated by the school coordinator and employer. These courses are accompanied by a classroom component (see 16990 Work Experience Classroom above).

16999 Hospitality and Tourism–Other

(Provide local course description.)

Subject Area 17: Architecture and Construction

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) course classifications are written to describe all grades in the K-12 span unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. This subject area has the course classification “Particular Topics” in one or more categories. Use this classification when local courses focus on a topic or combine topics that are not specified in other MCCC classifications listed within the category.
2. Some local courses combine two MCCC course classifications or topics and there is no “Particular Topics” in the category. If one of the topics receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that topic. If topics are of equal focus, use the “Other” course classification at the end of the subject area to classify the local combination.
3. Both **Subject Area 13: Manufacturing** and **Subject Area 17: Architecture and Construction** claim wood processing/woodworking. The classification *13054 Wood Processing/Production* includes processing of wood and wood products, while *17006 Woodworking* and *17007 Cabinetmaking* describe the more traditional individual, project-based courses.
4. The general industrial arts classification that exposes students to tools and machines and develops skills to use them in a variety of applications, such as drawing and planning, electricity, graphic arts, woodworking, leatherworking, metalworking, plastics or power technology is *13003 Industrial Arts*.

III. Architecture and Construction course categories

Category	Code Range
A. Construction–General	17(001)–17(050)
B. Air Conditioning, Heating and Plumbing	17(051)–17(100)
C. Electricity/Electronics	17(101)–17(150)
D. All Others	17(990)–17(999)

A. Construction–General

17001 Construction Careers Exploration

Courses in this classification explore opportunities available in construction-related trades, such as carpentry, masonry, air conditioning/refrigeration and plumbing. Students learn 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 the field.

17002 Construction–Comprehensive

Courses in this classification develop basic knowledge and skills required for construction of commercial, residential, and institutional structures. They provide experiences and information regarding construction-related occupations such as carpentry, cabinetmaking, bricklaying, electrical trades, plumbing and concrete masonry. Activities include reading blueprints, preparing building sites, starting foundations, erecting structures, installing utilities, finishing surfaces, and maintenance.

17003 Carpentry

Courses in this classification provide information about building wooden structures. Topics include understanding wood grades and construction methods; developing skills such as laying sills and joists; erecting sills and rafters; applying sheathing, siding, and shingles; setting doorjamb; and hanging doors. Courses may include skills for rough construction, finish work or both. Students learn to read blueprints, draft, use tools and machines safely, erect buildings, perform finish work and limited cabinetwork. Career exploration, good work habits and employability skills may be included.

17004 Framing Carpentry

Courses in this classification are similar to general carpentry courses, but place a special emphasis on construction methods applicable to floor, wall, roof, and/or stair framing. Insulation installation and painting may be included.

17005 Particular Topics in Carpentry

Courses in this classification cover specific aspects of building construction or carpentry not previously described in general courses.

17006 Woodworking

Courses in this classification introduce various woods and offer experience in using selected woodworking tools safely. Students design and construct one or more projects and may prepare a bill of materials. Advanced work may focus on learning terminology, developing skills to use power tools safely and becoming familiar with various kinds of wood-finishing materials.

17007 Cabinetmaking

Courses in this classification provide experience in constructing cases, cabinets, counters and interior woodwork. Topics include various types of furniture construction and appropriate applications, use of machines and power tools for cutting and shaping wood. Courses include different methods of joining, including use of mechanical fasteners. Advanced topics may include plastic laminate installation and spray finish applications.

17008 Masonry

Courses in this classification develop skills to construct interior and exterior walls, columns, doorways, window openings, fireplaces, chimneys, and foundations from brick and concrete block. Topics include mixing and spreading cement and mortar, reading blueprints and plans, and estimating materials needed for a project. How to layout buildings on footings and how to establish grades using a surveying transit may be included.

17009 Building Maintenance

Courses in this classification develop skills to maintain commercial, industrial, and residential buildings and homes. Topics include basic maintenance and repair of air conditioning, heating, plumbing, electrical, and other mechanical systems. Identifying and using hand and power tools safely; installing and repairing floor coverings, walls, and ceilings; installing and repairing doors, windows, screens, and cabinets; applying finishes to prepared surfaces; and repairing roofs, masonry, plumbing, and electrical systems may be included.

17010 Home Maintenance

Courses in this classification provide knowledge and skills related to devices and systems found in the home. Content may include electrical wiring, plumbing, window and door repair and installation, wall and floor repair and finishing, furniture repair and finishing, and small appliance repair.

17011 Wall Finishing

Courses in this classification provide knowledge and skills to finish exterior or interior surfaces by applying protective coating materials such as paint, lacquer, wallpaper, plaster or stucco. Topics may include instruction in making, mixing and matching paint colors; applying coating with various types of equipment; applying wallpaper; lathing, preparing surfaces, smoothing and finishing.

17012 Upholstering

Courses in this classification provide knowledge and skills to upholster furniture. Topics include installing, repairing and securing the springs, filler, padding and cover materials of chairs, couches and mattresses; cutting, sewing and trimming; cushion filling, tufting and buttoning; and wood refinishing.

17013 Furniture

Courses in this classification provide knowledge and skills to design, construct and finish furniture. Content may also include marketing and sales.

17014 Commercial Construction

Courses in this classification focus on residential construction principles and their relationship to commercial applications. Topics typically include commercial concrete forming, reinforcement and placement methods, stair construction, metal framing, interior finishes, suspended ceiling systems, drywall applications and commercial roofing methods and systems. Courses may also address equipment and tool usage in commercial construction.

17015 Construction Estimating

Courses in this classification provide fundamental principles of construction estimating. Topics typically include procedures for estimating costs in different divisions of a project and determining the critical quantities of materials obtained from a set of plans.

17016 Construction Management

Courses in this classification introduce the concept of the project team, use of documents on a construction site, submittals, shop drawings, jobsite layout, meeting control, safety management, changes and claims forms and project closeout record keeping. Topics often also included are construction law, construction contracts and how to work with owners and subcontractors.

17017 Particular Topics in Construction

Courses in this classification provide knowledge and skills in particular topics in construction not described in the construction classifications above.

17018 Concrete Foundations

Courses in this classification cover concrete and its relationship to construction and concrete safety and testing techniques.

B. Air Conditioning, Heating and Plumbing

17051 Air Conditioning

Courses in this classification develop knowledge and skills to design, install, and repair residential and commercial air conditioning systems. They emphasize the theory and design of electrical, electronic, mechanical, and pneumatic control systems. They may focus on procedures used in troubleshooting, servicing, and installing components of air conditioning systems.

17052 Refrigeration

Courses in this classification examine the theories and equipment, as well as develop the skills needed to design, install, and repair commercial and residential refrigeration systems. Topics include the theory of thermodynamics, measurement of pressures and temperatures, components and common accessories of refrigeration systems, and repair and safety procedures.

17053 Heating

Courses in this classification offer training specific to the design, installation, and repair of heating systems for residential use. Topics typically include electric, gas, and/or steam systems; ventilation procedures; safety practices; and installation and troubleshooting techniques.

17054 Air Conditioning/Refrigeration

Courses in this classification enable students to develop the combined skills and knowledge to install, maintain, adjust and repair both air conditioning and refrigeration systems.

17055 Air Conditioning, Heating and Refrigeration

Courses in this classification provide students with the knowledge of basic principles of these systems and the skills to identify and safely use tools/equipment used in the trade.

17056 Heating, Ventilation and Air Conditioning

Courses in this classification synthesize basic and advanced principles in heating, ventilation and air conditioning. Topics include air filtration methods, humidity control, and the installation and maintenance of heat pumps, furnaces and air conditioners. Climate control systems; electrical wiring; systems design; sizing, fabricating, and installing ductwork; installing and maintaining climate control systems and safety may be included.

17057 Particular Topics in HVACR

Courses in this classification offer specialized training in aspects or topics of heating, ventilation, air conditioning and refrigeration systems not previously described. Topics may include, but are not limited to, electrical components, diagrams and blueprints, welding and soldering techniques.

17058 Plumbing

Courses in this classification provide instruction in installing waste and vent systems, water and gas pipes, trim, and fixtures. Skills include cutting various types of pipe such as steel and plastic and using various joining methods such as cement and seat method.

17059 Plumbing and Heating

Courses in this classification address the installation, assembly, maintenance, and repair of piping, plumbing, heating equipment, and water and drainage systems. Topics include the computation of heat losses and BTU requirements and blueprint reading. Experience with electric, gas, and oil furnaces; vacuum pumps; air compressors; and mechanical and pneumatic testing equipment may be included.

C. Electricity/Electronics

17101 Exploration of Electricity/Electronics

Courses in this classification offer instruction in the theory of electricity and in the terminology, skills, and safety procedures involving electricity and electronics. Topics include, but are not limited to Ohm's law, electrical equipment and wire systems. Career exploration may be included.

17102 Electricity–Comprehensive

Courses in this classification survey the theory, terminology, equipment, and practical experience for careers in the electrical field. They typically include AC and DC circuitry, safety, and the National Electrical Code. Course often develop skills in building circuits; wiring residential, commercial, and/or industrial buildings; installing lighting, power circuits, and cables and estimating job costs. Career exploration may be included.

17103 Residential Wiring

Courses in this classification are similar to Electricity–Comprehensive courses but apply the knowledge and skills to the residential electrical systems. Topics may include outlets, cable installation, telephone systems, and the installation of lighting fixtures. Maintenance and repair are often included.

17104 Industrial Electricity

Courses in this classification are similar to Electricity–Comprehensive courses but apply the knowledge and skills to industrial electrical systems. Topics include installation of transformers and control devices, emergency generator systems and other industrial applications.

17105 Particular Topics in Electricity

Courses in this classification provide students with specialized knowledge and support skill development in particular topics concerning the nature, behavior and application of electrical current.

17106 Electronics–Comprehensive

Courses in this classification survey the theory, terminology, equipment and provide practical experience in the electronic field. Topics typically include the theory of electricity and AC, DC, analog and integrated circuitry as well as solid state and digital devices, amplifiers and semiconductors. Courses may support skill development in the repair, maintenance and building of electronic equipment such as radios, television sets and industrial equipment.

17107 Particular Topics in Electronics

Courses in this classification offer specialized training in topics related to electronics such as diodes, transistors, digital techniques, solid-state devices, analog circuits, and microprocessors or other topics not previously described.

17108 Electricity/Electronics–General

Courses in this classification teach fundamental concepts of electricity and electronics, including safety procedures, and may introduce occupations in electrical and electronic industries. Topics covered typically include components of circuits; reading schematics and diagrams; electricity and electronics as sources of energy; signal transmission; and using equipment common to these occupations, such as ammeters, voltmeters, capacitor checkers, transistor testers, signal generators and ohmmeters.

17109 Particular Topics in Electricity/Electronics

Courses in this classification provide instruction in the theory and skills needed in fields involving electricity and electronics and related fields that focus on electrical wiring or electronic signals not previously described.

17110 Analog and Digital Circuits

Courses in this classification compare analog and digital circuits and systems. Topics include binary and continuously variable currents and signals (typically in the context of voltage), waveforms, signal loss and distortion, modulation and signal processing. Sound waves and liquids may be included.

17111 Analog Circuits

Courses in this classification emphasize currents and voltages that have continuously variable signals and concentrate on signal modulation, transmission and reception, signal loss and distortion, and waveforms. Courses may include conversion techniques.

17112 Digital Circuits

Courses in this classification emphasize currents and voltages that have binary states and focus on transmission and reception of binary data, signal loss, processing circuitry and conversion techniques.

D. All Others

17990 Architecture and Construction—Work Experience Classroom

Courses in this classification accompany work experience programs (apprenticeships or work-based learning) and typically involve further study of the field and discussion of experiences in the workplace.

17991 Architecture and Construction—Student Leadership

Courses in this classification develop students' personal and group leadership skills and typically focus on effective communication, decision-making, problem-solving and completion of group activities. Courses may include participation in recognized career and technology education student organizations, such as SkillsUSA. Or, all of these activities may be embedded in other architecture and construction courses.

17992 Architecture and Construction—Apprenticeship

Courses in this classification provide students with supervised workplace training in architecture and construction. Goals are typically set cooperatively by the student, school coordinator and mentor/employer (although students are not necessarily paid). Students' work is evaluated by the school coordinator and mentor/employer. These courses are accompanied by a classroom component (see *17990 Work Experience Classroom* above).

17995 Architecture and Construction–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

17996 Seminar/Project–Architecture and Construction

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in architecture and construction. They may include college and/or career exploration and planning. Students often design a project based on their areas of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit and other projects required for graduation.

17997 Architecture and Construction–Independent study

Courses in this classification, often conducted with instructors or professionals as mentors, enable students to explore architecture and construction-related topics of interest. These courses serve as an opportunity for students to expand their expertise, explore a topic in detail or develop advanced skills.

7998 Architecture and Construction–Work-Based Learning

Courses in this classification provide students with work experience in a field related to architecture or construction. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). Students' work is supervised and evaluated by a school coordinator and the employer. These courses are accompanied by a classroom component (see *17990 Work Experience Classroom* above).

17999 Architecture and Construction–Other

(Provide local course description.)

Subject Area 18: Agriculture, Food and Natural Resources

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) course classifications are written to describe all grades in the K-12 span unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

This subject area has the course classification “Particular Topics” in one or more categories. Use this classification when local courses focus on a topic or combine topics that are not specified in other MCCC classifications listed within the category.

Some local courses combine two MCCC course classifications or topics and there is no “Particular Topics” in the category. If one of the topics receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that topic. If topics are of equal focus, use the “Other” course classification at the end of the subject area to classify the local combination.

Local courses that focus on on-the-job learning in the food service industry are most appropriately classified under 16098 Restaurant, Food, and Beverage Services–Work–Based Learning in 16 Hospitality and Tourism.

III. Agriculture, Food and Natural Resources course categories

Category	Code Range
A. Comprehensive	18(001)–18(050)
B. Plant Systems	18(051)–18(100)
C. Animal Systems	18(101)–18(150)
D. Agribusiness	18(201)–18(250)
E. Agriculture Production/Processing	18(301)–18(350)
F. Agriculture Mechanics and Construction	18(401)–18(450)
G. Natural Resources	18(501)–18(550)
H. All Others	18(990)–18(999)

A. Comprehensive

18001 Introduction to Agriculture and Natural Resources

Courses in this classification survey a range of topics, exploring varied careers in agriculture and natural resources. They provide students an opportunity to identify an area for continued study. They often focus on developing communication skills, business principles and leadership skills.

18002 Agriculture–Comprehensive

Courses in this classification include a range of 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 careers available in the industry. Topics such as chemical and soil science, ecology, agricultural marketing and veterinary science may be included.

18003 Agriculture and Natural Resources–Comprehensive

Courses in this classification are similar to Agriculture–Comprehensive but also include natural resource topics, such as environmental science and conservation; ecology and forestry.

18004 Biological Applications in Agriculture

Courses in this classification integrate and explore the world of agriculture and associated biological principles. Topics emphasize and reinforce knowledge and skills standards for biology with agricultural applications.

18005 Particular Topics in Environmental Service Systems

Courses in this classification provide knowledge and develop skills in particular topics concerning the structure, processes and implementation of environmental service systems.

18107 Animal Nutrition

Courses in this classification provide students with opportunities to study the structure and function of organic and inorganic nutrients. Topics may include the essential nutritive requirements of domestic livestock, poultry, and companion animals; digestion, absorption, metabolism, and barriers for nutrient utilization; sources of nutrients; application of energy systems and concepts; and regulation of feed intake in animals. These courses also teach students how to compare and contrast the nutritional levels for animal maintenance and production.

18108 Animal Genetics

Courses in this classification explore genetic inheritance in agricultural animals and the identification of livestock breeds by the origin, significance, distribution, and domestication of animal species. These courses allow students to compare and contrast the hierarchical classification of the major agricultural animal species and identify breeding system options based on the principles of genetics. These courses also address selecting animals based on quantitative breeding values for specific characteristics.

18109 Integrated Pest Management

Courses in this classification help students develop an understanding of the life cycles of and damage caused by pests, diseases, and weeds. Course topics may include the application of pesticides and/or herbicides to manage pest populations and assessing the effectiveness of pest management plans.

B. Plant Systems

18051 Plant Production/Science

Courses in this classification provide knowledge about the propagation of plants for food and fiber. Topics include soil science, irrigation, pest and weed control, food and fiber processing, and farm operations. General knowledge and skills needed to produce all types of crops or a particular area of plant production may be emphasized.

18052 General Horticulture

Courses in this classification explore the art and science of growing plants, shrubs, trees, flowers, fruits, and vegetables. Topics include greenhouse and nursery operations, soils and media mixtures, fruit and vegetable production, turf/golf course management, interior and exterior plantscaping, irrigation systems, weed and pest control and floral design.

18053 Ornamental Horticulture

Courses in this classification explore the care and propagation of plants, flowers, trees and shrubs, but focus on those used for decorative and aesthetic purposes. Courses usually concentrate on nurseries, greenhouses and/or the floristry industry.

18054 Turf and Landscape Management

Courses in this classification explore plant science, soil and media mixtures, plant identification, optimal environments and landscape design. They emphasize applying knowledge and skill to the design, establishment, and maintenance of lawns, parks, open space, and similar environments.

18055 Soil Science

Courses in this classification explore soil properties, including soil chemistry, biology, fertility, mineralogy and hydrology. Topics include soil conservation, irrigation and management.

18056 Particular Topics in Plant Systems

Courses in this classification examine specific topics, such as floral design, hydroponics or landscaping, rather than provide a general study of plant systems or horticulture.

C. Animal Systems

18101 Animal Production/Science

Courses in this classification explore the care and management of domestic and farm animals. They may include animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing and marketing. Study may emphasize general care and maintenance of livestock or focus on a particular species, such as swine, cattle, horses, fowl or sheep.

18102 Small Animal Care

Courses in this classification focus on the care and management of small animals. Topics include animal nutrition, health, behavior, reproduction and breeding, anatomy and physiology, facilities, handling and training and grooming. Kennel operations and sales may also be included.

18103 Large Animal Care

Courses in this classification focus on the care and management of large animals. Topics include animal nutrition, health, behavior, reproduction and breeding, anatomy and physiology, facilities, handling and training and grooming. Product processing and marketing may also be included.

18104 Equine Science

Courses in this classification focus on the care and management of horses. Topics include animal nutrition, health, behavior, reproduction and breeding, anatomy and physiology, facilities, handling and training, and grooming.

18105 Veterinary Science

Courses in this classification focus on the causes, diagnosis, and treatment of animal diseases and injuries, typically emphasizing domestic and farm animals. Topics include anatomy and physiology, nutrition, behavior and reproduction, but may also include other areas of study as appropriate.

18106 Particular Topics in Animal Systems

Courses in this classification examine specific topics related to animal care and management, production, or processing, such as equine training or animal waste management, rather than provide a general study of animal care and the systems related to their growth and management.

18107 Animal Nutrition

Courses in this classification provide students with opportunities to study the structure and function of organic and inorganic nutrients. Topics may include the essential nutritive requirements of domestic livestock, poultry, and companion animals; digestion, absorption, metabolism, and barriers for nutrient utilization; sources of nutrients; application of energy systems and concepts; and regulation of feed intake in animals. These courses also teach students how to compare and contrast the nutritional levels for animal maintenance and production.

18108 Animal Genetics

Courses in this classification explore genetic inheritance in agricultural animals and the identification of livestock breeds by the origin, significance, distribution, and domestication of animal species. These courses allow students to compare and contrast the hierarchical classification of the major agricultural animal species and identify breeding system options based on the principles of genetics. These courses also address selecting animals based on quantitative breeding values for specific characteristics.

18109 Integrated Pest Management

Courses in this classification help students develop an understanding of the life cycles of and damage caused by pests, diseases, and weeds. Course topics may include the application of pesticides and/or herbicides to manage pest populations and assessing the effectiveness of pest management plans.

D. Agribusiness

18201 Agribusiness Management

Courses in this classification examine management of agribusiness and entrepreneurial ventures. Topics include economic principles, risk management, finance, business law, marketing and promotion, insurance and resource management. Business plans, employee/employer relations, commodities, building leadership skills and career opportunities may be included.

18202 Agricultural Entrepreneurship

Courses in this classification focus on the skills necessary for entrepreneurial ventures in agricultural. Topics include setting goals, assessing and solving problems, evaluating financial progress and success, business planning, information management and evaluation, and recordkeeping.

18204 Particular Topics in Agribusiness

Courses in this classification examine specific topics related to agribusiness, such as international agriculture, land surveying or commodities, rather than provide a general study of agribusiness principles.

18205 Agriculture Computers and Technology

Courses in this classification develop knowledge and skills in using computers and other technology to operate and manage agricultural businesses. They offer opportunities to use computer hardware, software and the internet to find information, record and analyze financial and production data, track market trends and economic forecasts, monitor weather, utilize global positioning systems and prepare communications and reports.

E. Agricultural Production/Processing

18301 Agricultural Production

Courses in this classification combine animal and plant production, providing comprehensive coverage of the production functions. Topics include care and management of farm animals, crop production and harvesting, plant and animal insect and disease control, efficient resource and farm management.

18302 Agricultural Processing

Courses in this classification develop knowledge and skills needed to bring animal and plant products to market. Topics include care and maintenance of animals or plants, quality selection and preservation, equipment care and sanitation, government regulations, and marketing and consumer trends. Courses may present an overview or specialize in particular types of products.

18303 Plant Processing

Courses in this classification develop knowledge and skills needed to bring plant products to market. Topics include plant production, quality selection and preservation, equipment care and sanitation, government regulations, and marketing and consumer trends. Courses may present an overview or specialize in specific plant products.

18304 Animal Processing

Courses in this classification develop knowledge and skills needed to bring animal products to market. Topics include animal care and maintenance, quality selection, product preservation, equipment care and sanitation, government regulations, and marketing and consumer trends. Courses may present an overview or specialize in particular products, such as meat, leather, wool, or dairy products.

18305 Food Product Processing

Courses in this classification develop knowledge and skills needed to produce and manufacture food products. Topics include quality selection and preservation, equipment care and sanitation, government regulations, marketing, consumer trends, and product research and development.

18306 Aquaculture

Courses in this classification develop knowledge and skills needed for producing fish, plants and other species living in an aquatic environment. Topics include the selection, propagation, harvesting and marketing of those species. Aquatic and marine biology, ecosystems, water quality and management, and business practices may be included.

18307 Agriculture and Society

Courses in this classification survey the importance of, impact on and relationships between agricultural endeavors and society. They emphasize economic and environmental factors and impacts, such as urban and agricultural water use and the influences of society on agricultural endeavors, including production, processing, and distribution. Technological advances such as genetic engineering may also be discussed.

18308 Agricultural Biotechnology

Courses in this classification apply biological principles and understanding to plant and animal science in order to produce or refine agricultural products. Topics typically include, but are not limited to, microbiology, genetics, growth and reproduction, structural basis of function in living systems, chemistry of living systems, quantitative problem-solving, and data acquisition and display. The ethics of biotechnology is often included.

18309 Particular Topics in Agricultural Production/Processing

Courses in this classification examine specific topics related to producing and processing agricultural products not previously described or rather than provide a general study of production or processing.

18310 Sustainable/Alternative Agriculture

Courses in this classification explore technological and environmental changes and concerns. They address alternative approaches to food production including organics, low-input, natural and sustainable production methodology and practices. Content may include comparing the effects of alternative production practices to those of conventional production practices.

18311 Viticulture

Courses in this classification prepare students for further studies in grape-growing, viticulture, and wine-making industry. Course topics typically include establishing and managing vineyards; harvesting; fermentation and wine making; marketing; and exploring career options within the industry. Agricultural applications specific to vineyards and wineries are emphasized.

F. Agricultural Mechanics and Construction

18401 Agriculture Mechanics/Equipment/Structures

Courses in this classification develop skills and knowledge applicable to the tools and equipment used in the agricultural industry, such as engine mechanics, power systems, welding, and carpentry. Topics include, but are not limited to, the operation, mechanics, and care of farm tools and machines; the construction and repair of structures integral to farm operations; a study of electricity and power principles; and safety procedures.

18402 Agriculture Mechanics and Equipment

Courses in this classification explore engineering and power technology principles, skills, and knowledge that are specifically applicable to the agricultural industry. Typical topics include the operation, maintenance, and repair of power, electrical, hydraulic, and mechanical systems including alternative sources of energy.

18403 Agriculture Structures

Courses in this classification develop the skills and knowledge applicable to the construction, maintenance and repair of structures, such as animal enclosures, irrigation systems and storage facilities. Topics include design, planning, and construction. Skills associated with surveying, carpentry, plumbing, concrete and electrical systems in addition to the safe use of tools are often included.

18404 Agricultural Metal Fabrication Technology

Courses in this classification provide welding skills and knowledge applicable to the tools and equipment used in agricultural. Topics include the operation, mechanics, and care of farm tools and machines; the construction and repair of structures integral to farm operations; an introduction or review of electricity and power; and safety procedures.

18405 Particular Topics in Agricultural Mechanics and Construction

Courses in this classification examine specific topics related to agriculture, such as specific vehicles or structures not previously described or rather than provide a general study of mechanics and construction.

18406 Water Treatment

Courses in this classification provide instruction in environmental hazards associated with waste water disposal. Topics typically include steps in waste water treatment, compliance with applicable regulations, use of water-testing instruments and water treatment equipment.

G. Natural Resources

18501 Wildlife and Recreation Management

Courses in this classification explore conservation and outdoor recreation topics. They emphasize understanding the importance of maintaining land and ecological systems that enable wildlife to thrive. They focus on how humans and animals may both use the same land or how to gain economic benefits from the land while not degrading its natural resources or depleting plant or animal populations.

18502 Forestry Management

Courses in this classification provide information and experience necessary for the cultivation, management and care of forests or timberlands. Topics include regeneration and reforestation, harvesting and conservation of natural resources, erosion and pest control, trail development and maintenance, mapping and surveying, operation of forestry tools, government regulations, environmental stewardship and recreational use of forests.

18504 Natural Resources Management

Courses in this classification combine ecology and conservation with planning for preservation of land, water, wildlife and forests. Topics may include, but are not limited to, hunting or fishing preserves, forest production and management, wildlife preservation and human outdoor recreation.

18505 Particular Topics in Natural Resources

Courses in this classification focus on topics not previously described, such as urban forestry, taxidermy or hunter education not previously described rather than provide a general study of natural resources.

18506 Alternative Energy

Courses in this classification explore renewable and nonrenewable energy sources in addition to natural resources. Topics typically include alternative energy sources and their respective advantages and disadvantages, the impact of conventional and alternative energy sources on the environment, the efficiency of energy production from various sources and careers in the fields of alternative energy and sustainability.

H. All Others

18990 Agriculture, Food and Natural Resources–Work Experience Classroom

Courses in this classification accompany work experience programs (apprenticeships or work-based learning) and typically involve further study of the field and discussion of experiences in the workplace.

18991 Agriculture, Food and Natural Resources–Student Leadership

Courses in this classification develop students' personal and group leadership skills and typically focus on effective communication, decision-making, problem-solving and completion of group activities. Courses may include participation in student organizations such as the National FFA Organization. Or, all of these activities may be embedded in other agriculture, food or natural resources courses.

18992 Agriculture, Food and Natural Resources–Apprenticeship

Courses in this classification provide students with supervised workplace training in agriculture, food or natural resources. Goals are typically set cooperatively by the student, school coordinator and mentor/employer (although students are not necessarily paid). Students' work is evaluated by the school coordinator and mentor/employer. These courses are accompanied by a classroom component (see 18990 Work Experience Classroom above).

18995 Agriculture, Food and Natural Resources–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

18996 Seminar/Project–Agriculture, Food and Natural Resources

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest agriculture, food or natural resources. They may include college and/or career exploration and planning. Students often design a project based on their areas of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit and other projects required for graduation.

18997 Agriculture, Food and Natural Resources–Independent Study/Supervised Agriculture Experience

Courses in this classification, often conducted with instructors or professionals as mentors, enable students to explore topics of interest related to agriculture, food or natural resources. These courses serve as an opportunity for students to expand their expertise, explore a topic in detail or develop advanced skills.

18998 Agriculture, Food and Natural Resources–Work-Based Learning

Courses in this classification provide students with work experience in a field related to agriculture, food or natural resources. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). Students' work is supervised and evaluated by a school coordinator and the employer. These courses are accompanied by a classroom component (see 18990 Work Experience Classroom above).

18999 Agriculture, Food and Natural Resources–Other

(Provide local course description.)

Subject Area 19: Human Services

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) course classifications are written to describe all grades in the K-12 span unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. This subject area has the course classification “Particular Topics” in one or more categories. Use this classification when local courses focus on a topic or combine topics that are not specified in other MCCC classifications listed within the category.
2. Some local courses combine two MCCC course classifications or topics and no MCCC classification exists for that local combination (and there is no “Particular Topics” in the category). If one topic in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that topic. If all topics are of equal focus, use the “Other” course classification at the end of the subject area to classify the local combination and provide a brief description of local course content.

III. Human Services course categories

Category	Code Range
A. Career Exploration	19(001)–19(050)
B. Child and Elder Care	19(051)–19(100)
C. Cosmetology	19(101)–19(150)
D. Education	19(151)–19(200)
E. Apparel and Furnishings	19(201)–19(250)
F. All Others	19(990)–19(999)

A. Career Exploration

19001 Human Services Career Exploration

Courses in this classification explore career opportunities pertaining human service. Topics 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 explored.

B. Child and Elder Care

19051 Child Care

Courses in this classification provide knowledge about the physical, mental, emotional, and social growth and development from birth through childhood. Topics include the fundamentals of working with infants, toddlers, and older children; providing healthy environments; evaluating childcare settings; and the practices, regulations and opportunities in the industry. Courses often provide students with practical experience in a childcare center. Advanced topics may include learning theories; development of activities; operation of a childcare center; recognition of childhood diseases, abuse, and neglect; and first aid/emergency training.

19052 Child Development

Courses in this classification provide knowledge about the physical, mental, emotional, and social growth and development from conception to pre-school age, emphasizing application of knowledge in childcare settings. Topics include appropriate care of infants, toddlers and young children.

19053 Elder Care

Courses in this classification emphasize the care of older people. Topics include the biological, physiological, social, and psychological needs and concerns of the elderly in addition to dealing with the aging process, death and dying in a realistic manner. Courses may explore career opportunities and include work and personal habits appropriate to the field.

19054 Care Giving Service

Courses in this classification emphasize care of persons needing assistance to care for themselves. Topics include biological, physiological, social, and psychological needs of young children, the elderly, and/or the disabled. Content may include planning daily routines; appropriate environments and activities; growth and aging processes; and managing a center or working in others' homes.

19055 Particular Topics in Child and Elder Care

Courses in this classification examine specific topics related to child and elder care not previously described, such as regulations of the industry or caring for people with special needs, rather than providing a general study of child and elder care.

C. Cosmetology

19101 Cosmetology–Licensing

Courses in this classification provide knowledge and develop skills applicable to hair, skin and nail care and prepare students for state licensing examinations. Courses are usually in a series with a specified number of instructional hours and require applied experience. Topics include human anatomy and skin conditions, chemistry and bacteriology, sanitation and sterilization, state laws and regulations, and shop management. Courses provide experiences in shampooing, cutting, styling, coloring, waving, and relaxing hair and providing facials and manicures.

19102 Barbering

Courses in this classification develop skills and provide experience to shave, style, and trim mustaches and beards and to shampoo, cut and style hair. Topics include hygiene, skin and scalp disease, and use of equipment. Courses may include topics similar to those in Cosmetology courses and prepare students for state licensing examinations.

19103 Hair Styling

Courses in this classification develop skills and provide experience in cutting, shampooing, and styling hair. Topics include hygiene, skin and scalp disease, and use of equipment. Experiences in bleaching, coloring, tinting, waving and relaxing hair are typically included.

19104 Cosmetology–Non-licensing

Courses in this classification provide knowledge and skills applicable to hair, skin and nail care, but do not prepare students for state licensing examinations. Topics include human anatomy, sanitation and sterilization, and related chemistry and bacteriology. Shop management and state regulations may also be included.

19105 Cosmetology–Nail Specialization

Courses in this classification provide experience related to manicures, pedicures and nail extension treatments. Topics include hygiene, entrepreneurship, human relations and other related subject issues.

19106 Cosmetology–Facial Specialization

Courses in this classification provide information and experience related to skin care, including facials, make-up application and facial massage. Topics include hygiene and sanitation, human anatomy and skin conditions, entrepreneurship, and/or human relations.

19107 Particular Topics in Cosmetology

Courses in this classification examine specific topics related to cosmetology not otherwise described, such as electrolysis, rather than providing a general study.

D. Education

19151 Teaching Profession

Courses in this classification introduce the principles underlying teaching and learning, the responsibilities and duties of teachers, and the techniques of imparting knowledge and information. Courses typically explore classroom management, student behavior, leadership and human relations skills, assessment of student progress, teaching strategies, and various career opportunities.

19152 Educational Methodology

Courses in this classification prepare students to teach and guide others. Courses typically provide opportunities to develop teaching objectives, design lesson plans, and experience teaching in a controlled environment. Examination of and practice with teaching strategies, learning styles, time management and planning strategies, presentation and questioning skills, classroom management and evaluation techniques are often included.

19153 Teaching—Early Childhood Education

Courses in this classification typically combine instruction in child development, care and education with experience in guiding the development of young children in an educational setting. Topics include planning and implementing developmentally appropriate activities for young children, basic health and safety practices, and legal requirements for teaching young children.

19154 Particular Topics in Education

Courses in this classification examine specific topics in education other than those previously described rather than providing a general study of the teaching profession.

19155 Instructional Technology

Courses in this classification address the implementation of technical devices and processes that are used to improve and facilitate learning. Content includes, but is not limited to, productivity tools, interactive multimedia, communications, educational software and hardware, instructional applications, and ethical, legal, social, and professional issues.

E. Apparel and Furnishings

19201 Clothing and Textiles—Comprehensive

Courses in this classification introduce various aspects of the apparel and the textile industry. Topics include commercial application of design principles, production processes and maintenance techniques. Courses usually address the selection, characteristics, care and repair of various textiles; operation and care of commercial sewing machines; design, construction and production of fabrics and/or garments; and career opportunities in the industry.

19202 Clothing/Textile Maintenance

Courses in this classification provide knowledge and skills to clean, care for, and maintain clothing and textiles. Topics typically include dry cleaning and laundering techniques, identifying fabrics and the optimal cleaning agents and processes, instruction in altering and repairing garments, and the safe use of the equipment, tools and cleaning agents.

19203 Apparel Construction

Courses in this classification provide knowledge and skill to construct, alter, and repair clothing and textile products. Topics may include taking measurements, creating and preparing patterns and various sewing techniques. Customer service, fashion design principles and business management may be included. Courses may focus on particular textile or garment rather than present an overview.

19204 Apparel and Textile Services

Courses in this classification examine services that concern the care and maintenance of apparel, textiles, and furnishing. Topics may include upholstery, dry cleaning, commercial sewing and tailoring.

19205 Home Furnishing

Courses in this classification provide knowledge about home furnishing and decorating. Topics include design principles, personal style and needs, and decision-making. Additional topics may include color, texture, furniture styles and arrangement, lighting, window treatments, floor and wall coverings, and home improvement/modification. Architectural style and design as well as an overview of housing problems or issues may be included.

19206 Home Furnishings Production

Courses in this classification support students in planning, selecting, and constructing upholstery, slipcovers, window drapes and treatments, and other accessories such as pillows and quilts. Courses may emphasize a specific area such as upholstery exclusively. Content typically includes proper use of equipment, interior decorating principles and career opportunities.

19207 Particular Topics in Apparel and Furnishings

Courses in this classification examine specific topics in apparel and furnishings other than those previously described, such as tailoring or shoe repair, rather than providing a general study.

19208 Fashion Design

Courses in this classification provide knowledge of the fashion industry with an emphasis on topics such as, but limited to, the history of fashion, elements and principles of design, drawing fashion figures and garments, fibers and finishes, apparel and accessories, and fashion and consumers. Careers opportunities in fashion design are generally included.

F. All Others

19301 Counseling and Mental Health

Courses in this classification provide students with the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. These courses allow students to apply their knowledge of ethical and legal responsibilities, the limitations of these responsibilities, and the implications of their actions.

19990 Human Services–Work Experience Classroom

Courses in this classification accompany work experience programs (apprenticeships or work-based learning) and typically involve further study of the field and discussion of experiences in the workplace.

19991 Human Services–Student Leadership

Courses in this classification develop students' personal and group leadership skills and typically focus on effective communication, decision-making, problem-solving and completion of group activities. Courses may include participation in student organizations, such as Health Occupations Students of America (HOSA) and SkillsUSA. Or, all of these activities may be embedded in other human services courses.

19992 Human Services–Apprenticeship

Courses in this classification provide students with supervised workplace training in human services. Goals are typically set cooperatively by the student, school coordinator and mentor/employer (although students are not necessarily paid). Students' work is evaluated by the school coordinator and mentor/employer. These courses are accompanied by a classroom component (see *19990 Work Experience Classroom* above).

19993 Counseling and Mental Health

Courses in this classification provide students with the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. These courses allow students to apply their knowledge of ethical and legal responsibilities, the limitations of these responsibilities, and the implications of their actions.

19995 Human Services–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

19996 Seminar/Project–Human Services

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in human services. They may include college and/or career exploration and planning. Students often design a project based on their areas of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit and other projects required for graduation.

19997 Human Services–Independent Study

Courses in this classification, often conducted with instructors or professionals as mentors, enable students to explore topics of interest related to providing human services. These courses serve as an opportunity for students to expand their expertise, explore a topic in detail, or develop advanced skills.

19998 Human Services–Work-Based Learning

Courses in this classification provide students with work experience in a field related to the provision of human services. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). Students' work is supervised and evaluated by a school coordinator and the employer. These courses are accompanied by a classroom component (see *19990 Work Experience Classroom* above).

19999 Human Services–Other

(Provide local course description.)

Subject Area 20: Transportation, Distribution and Logistics

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) course classifications are written to describe all grades in the K-12 span unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. This subject area has the course classification “Particular Topics” in one or more categories. Use this classification when local courses focus on a topic or combine topics that are not specified in other MCCC classifications listed within the category.
2. Some local courses combine two MCCC course classifications or topics and no MCCC classification exists for that local combination (and there is no “Particular Topics” in the category). If one topic in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that topic. If all topics are of equal focus, use the “Other” course classification at the end of the subject area to classify the local combination and provide a brief description of local course content.
3. There are six aerospace/aviation MCCC course classifications in various subject areas. They include classifications that explore or concentrate on.
 - a. Relationships among meteorology, astronomy, and flight across and around the earth as well as into outer space, listed as *03209 Aerospace* in **03 Life and Physical Science**.
 - b. Airplane operation including navigation, flight control, ground and airport operations and services, and Federal Aviation Agency regulations, listed as *20053 Aviation* in this Subject area.
 - c. The world of aeronautics, flight and engineering, including aerodynamics and aerodynamics testing, flight systems and systems engineering, listed as *21013 PLTW–Aerospace Engineering™* in **21 Engineering and Technology**. (This is a Project Lead the Way [PLTW] course classification and can be used only by official PLTW sites.)
 - d. Technology systems used in the aerospace industry and interrelationships, including satellite communications systems and space station construction techniques, listed as *21055 Aerospace Technology* in **21 Engineering and Technology**.
 - e. The repair and installation of aircraft engines, listed as *20113 Aircraft Power Plant* and the structure and mechanics of aircraft frames, listed as *20114 Aircraft Airframe*. Both are listed in this Subject area.
4. Pilot training listed as *20055 Pilot Training* in this subject area.

III. Transportation, Distribution and Logistics course categories

Category	Code Range
A. Transportation Technology	20(001)–20(050)
B. Operation	20(051)–20(100)
C. Mechanics and Repair	20(101)–20(150)
D. Distribution and Logistics	20(151)–20(200)
E. All Others	20(990)–20(999)

A. Transportation Technology

20002 Exploration of Transportation, Distribution and Logistics

Courses in this classification 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.

B. Operation

20051 Truck and Bus Driving

Courses in this classification instruct students in the proper and safe handling and operation of trucks and buses. Topics include strategies for driving in hazardous conditions, observing laws and regulations, loading cargo or passengers, documenting cargo loads and expectations of driving careers.

20052 Heavy Equipment Operation

Courses in this classification enable students to safely operate the heavy equipment used for mining, construction, and utility industries. Typically, topics include light maintenance principles and techniques.

20053 Aviation

Courses in this classification provide students with an understanding of the science of flight and typically include the history, regulations and possible career paths within the aviation industry. Topics usually include physics, the relationships of weight and balance, principles of navigation and flight control, ground and airport operations and services, and Federal Aviation Agency regulations.

20054 Boat Operation

Courses in this classification typically include operation and maintenance of marine vehicles, marine navigation and emergency procedures, as well as other skills for work or life at sea such as loading and unloading or cooking. Topics may include docking and undocking a vessel, engine maintenance, commercial fishing, firefighting aboard ship and CPR.

20055 Pilot Training

Courses in this classification provide opportunities to participate in flight training, ground school and simulator instructions. Topics typically include preflight operations, flight maneuvering with reference to ground objects, flying at critically slow air speeds and recovering from stalls, takeoffs and landings, controlling and maneuvering an aircraft, cross-country flying, night flying and emergency operations. Other course content may include meteorology, aerodynamics, navigation, physiology, and airfield and flight environments.

C. Mechanics and Repair

20101 Energy/Power

Courses in this classification focus on one or several aspects of energy and power in transportation and work. Content may include various sources of energy and their use in society, for example, characteristics, availability, conversion, storage, environmental impact, and socioeconomic aspects of various energy sources. Topics include principles involved in various means of energy transfer, such as electricity/electronics, hydraulics, pneumatics, heat transfer, and wind/nuclear/solar energies; and the transmission and control of power through mechanical or electrical devices such as motors and engines.

20102 Power and Mechanics

Courses in this classification focus on understanding the principles of mechanics including aircraft, auto, diesel, and marine as well as how energy is converted, transmitted, and controlled. Topics include maintaining and servicing machines, engines and devices while emphasizing energy sources, electricity and power transmission. Career opportunities within the field may also be included.

20103 Introduction to Automobiles

Courses in this classification focus on personal mechanical knowledge and skills but may also include exploring careers in automotive technologies. Courses examine various mechanical systems in automobiles and provide basic experience in maintenance tasks.

20104 Automotive Mechanics–Comprehensive

Courses in this classification emphasize the diagnosis and repair of automobile (and/or non-diesel truck) engines and support systems such as brakes, cooling, drive trains, electrical/electronic components, emission, fuel, ignition, steering, suspension and transmissions. Topics often include understanding and using repair manuals and safety guides as well as employability skills, including shop management and entrepreneurship. Courses may prepare students for certification through programs such as the National Institute for Automotive Service Excellency (ASE) and the National Automotive Technicians Education Foundation (NATEF).

20105 Particular Topics in Automotive Mechanics

Courses in this classification provide instruction in a particular system, such as transmissions, brakes, fuel, exhaust, or electrical not previously described rather than providing an overview of auto (and/or non-diesel truck) mechanics.

20106 Automotive Service

Courses in this classification emphasize preventative auto (and/or non-diesel truck) maintenance and troubleshooting. Content includes tune-up, oil change and lubrication skills; tire replacement, alignment, and balancing; and basic knowledge of brake, cooling, electrical, emission, fuel, ignition, steering, suspension and transmission systems. Public relations, sales techniques, and service station management may be included.

20107 Diesel Mechanics—Comprehensive

Courses in this classification provide knowledge and skills to maintain and repair diesel engines and related systems. Topics include principles underlying diesel engines, analyzing electrical circuits and systems, troubleshooting and repairing cooling systems, testing and repairing air conditioning charging systems, reading and interpreting service manuals, and identifying the principles and components of fuel injection systems. Safety and employability skills may be included.

20108 Particular Topics in Diesel Mechanics

Courses in this classification cover specific topics relevant to the maintenance and repair of diesel engines. One topic or several related topics may be included in specific detail in this type of course.

20109 Small Vehicle Mechanics

Courses in this classification develop knowledge and skill to repair and maintain engines in small vehicles such as motorcycles, all-terrain vehicles, snowmobiles, and mopeds. Topics include maintaining frames and suspension, wheels and brakes, and drive trains; servicing fuel, exhaust, and electrical systems; performing tune-ups; and maintaining and repairing engines. Safety and employability skills may be included.

20110 Small Engine Mechanics

Courses in this classification develop knowledge and skill to service and recondition small engines, typically emphasizing two- and four-cycles. Topics include lubrication, ignition, fuel, power transfer, cooling, exhaust, and starting systems; troubleshooting and repairing speed controls; and reading and interpreting service manuals and parts catalogs. Applications may include, but are not limited to, lawn mowers, tractors, tillers and power tools.

20111 Marine Mechanics

Courses in this classification include the service and repair of electrical, mechanical, power transfer, hydraulic, fuel, and cooling systems as applied to boat and/or ship engines; boat rigging; trailers; and marine-related merchandise. Courses may also cover communication, human relations, and employability skills, as well as safe, efficient work practices.

20112 Heavy Equipment Mechanics

Courses in this classification include the service and repair of electrical, mechanical, power transfer, hydraulic, fuel, and cooling systems of heavy equipment used in mining, construction, and utility industries.

20113 Aircraft Power Plant

Courses in this classification provide the information necessary to troubleshoot, test, repair, and install aircraft engines. Content usually includes engine ignition, electrical, lubrication, cooling, exhaust, and fuel systems as well as aircraft instrumentation and safety features.

20114 Aircraft Airframe

Courses in this classification provide information and instruction related to the structure and mechanics of aircraft, including hydraulic, pneumatic, instrumental, fuel, electrical, cabin atmosphere, and landing gear systems. Courses may also cover aircraft metals and coverings and related welding skills.

20115 Automotive Detailing and Reconditioning

Courses in this classification provide knowledge and skills related to repairing, refinishing and detailing automobiles. Topics include painting and refinishing, plastics and adhesives, damage analysis and repair. Safety and employability may be included.

20116 Automotive Body Repair and Refinishing—Comprehensive

Courses in this classification provide knowledge and skills in repairing and refinishing of damaged or used cars. Topics include stretching and shrinking auto body sheet metal; welding skills; frame and metal straightening; repair of fiberglass and synthetic materials; removing, repairing, and installing auto body parts such as panels, hoods, doors, and windows/glass; preparing vehicles and vehicle surfaces for refinishing; painting; applying body fillers and estimating material and labor costs.

20117 Particular Topics in Automotive Body Repair and Refinishing

Courses in this classification provide instruction in topics relevant to repairing and refinishing automobile bodies and surfaces not previously described. One topic or several closely related topics may be the focus.

20118 Boat Repair/Refinishing

Courses in this classification provide information about and develop skills to repair and refinish boat mechanics, structures and surfaces. Topics include marine terminology, including how to describe types of marine manufacturing and preparing new and existing wood, fiberglass and metal surfaces for painting or refinishing. Courses often cover safety and employability skills.

20119 Hybrid Engines

Courses in this classification introduce the fundamentals of hybrid electric vehicles. They explore the hybrid power plant and may include topics such as hybrid batteries, high-and low-voltages systems, inverters, safety procedures, hybrid maintenance and diagnostics, and alternative fuels.

20120 Motorsports Technology

Courses in this classification provide an understanding of the principles of race car fabrication and all facets of the racing industry. Technical aspects of these courses may include skill development in vehicle assembly of high-performance engines and components using specialty tools, welding and auto body procedures. Course content may also explore the motorsports technology industry, address safety issues and identify careers in the field.

D. Distribution and Logistics

20151 Distribution–Comprehensive

Courses in this classification provide knowledge and skills of safe and efficient delivery of commodities. Topics typically include the comparative advantages of various forms of transportation, distribution networks, processes for tracking large shipments of material and packaging.

20152 Warehouse Operations

Courses in this classification examine the principles and processes of receiving, loading and unloading, tracking and storing of large quantities of materials. Topics typically include logistical implications for moving materials by several different modes of transportation as well as safety and security.

E. All Others

20990 Transportation, Distribution and Logistics–Work Experience Classroom

Courses in this classification accompany work experience programs (apprenticeships or work-based learning) and typically involve further study of the field and discussion of experiences in the workplace.

20991 Transportation, Distribution and Logistics–Student Leadership

Courses in this classification develop students' personal and group leadership skills and typically focus on effective communication, decision-making, problem-solving and completion of group activities. Courses may include participation in student organizations, such as SkillsUSA. Or, all of these activities may be embedded in other transportation, distribution and logistics courses.

20992 Transportation, Distribution and Logistics–Apprenticeship

Courses in this classification provide students with supervised workplace training in transportation, distribution and logistics. Goals are typically set cooperatively by the student, school coordinator and mentor/employer (although students are not necessarily paid). Students' work is evaluated by the school coordinator and mentor/employer. These courses are accompanied by a classroom component (see 20990 Work Experience Classroom above).

20995 Transportation, Distribution and Logistics–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

20996 Seminar/Project–Transportation, Distribution and Logistics

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in transportation, distribution or logistics. They may include college and/or career exploration and planning. Students often design a project based on an area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit and other projects required for graduation.

20997 Transportation, Distribution and Logistics–Independent Study

Courses in this classification, often conducted with instructors as mentors, enable students to explore topics of interest related to the field. These courses serve as an opportunity for students to expand their expertise, explore a topic in detail or develop advanced skills.

20998 Transportation, Distribution and Logistics–Work-Based Learning

Courses in this classification provide students with work experience in fields related to transportation, distribution, and logistics. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). Students' work is supervised and evaluated by a school coordinator and the employer. These courses are accompanied by a classroom component (see 20990 Work Experience Classroom above).

20999 Transportation, Distribution and Logistics–Other

(Provide local course description.)

Subject Area 21: Engineering and Technology

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) course classifications are written to describe all grades in the K-12 span unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. This subject area has the course classification “Particular Topics” in one or more categories. Use this classification when local course contains focus on a topic or combine topics that are not specified in other MCCC classifications listed within the category.
2. Some local courses combine two MCCC course classifications or topics and no MCCC classification exists for that local combination (and there is no “Particular Topics” in the category). If one topic in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC number for that topic. If all topics are of equal focus, use the “Other” classification at the end of the subject area to classify the local combination and provide a brief description of local course content.
3. While drafting is an entire category in this subject area, one classification *11002 Communication Technology* listed in **11 Communication and Audio/Visual Technology**, includes drafting, graphic arts, scale and multi-view drawings among other topics. It is a more comprehensive use of technology to communicate than the drafting classifications listed in this subject area.
4. Only official Project-Lead-The-Way (PLTW) sites may use the official PLTW engineering/technology classifications. Local courses that follow the PLTW curriculum but are not offered through an official site may not be classified under these classifications. Use other MCCC classifications that describe the local course content, including course classifications such as *21015 Particular Topics in Engineering*.
5. There are six aerospace/aviation course classifications. They include courses that explore:
6. Relationships among meteorology, astronomy, and flight across and around the earth as well as into outer space, listed as *03209 Aerospace* in **03 Life and Physical Science**.
 - a. Airplane operation including navigation, flight control, ground and airport operations and services, and Federal Aviation Agency regulations, listed as *20053 Aviation* in this subject area.
 - b. The world of aeronautics, flight and engineering, including aerodynamics and aerodynamics testing, flight systems and systems engineering, listed as *21013 PLTW–Aerospace Engineering™* in **21 Engineering and Technology**. (This is a Project-Lead-The-Way [PLTW] course classification and can be used only by official PLTW sites.)
 - c. Technology systems used in the aerospace industry and interrelationships, including satellite communications systems and space station construction techniques, listed as *21055 Aerospace Technology* in **21 Engineering and Technology**.
 - d. The repair and installation of aircraft engines, listed as *20113 Aircraft Power Plant* and the structure and mechanics of aircraft frames, listed as *20114 Aircraft Airframe*. Both are listed in this subject area.
 - e. Pilot training listed as *20055 Pilot Training* in **20 Transportation, Distribution and Logistics**.

III. Engineering and Technology course categories

Category	Code Range
A. Engineering	21(001)–21(050)
B. Technology	21(051)–21(100)
C. Drafting	21(101)–21(150)
D. All Others	21(990)–21(999)

A. Engineering

21001 Pre-Engineering Technology

Courses in this classification integrate technology-oriented applications of mathematics and science into pre-engineering activities for students. Topics may include material sciences, technology processes, enterprises and career opportunities.

21002 Engineering Applications

Courses in this classification provide an overview of the practical uses of engineering applications. Topics usually include hydraulics, pneumatics, computer interfacing, robotics, computer-aided design, computer numerical control and electronics.

21003 Engineering Technology

Courses in this classification provide 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 include the nature and use of technology and design processes.

21004 PLTW–Principles of Engineering™

Courses in this classification adhere to the PLTW curriculum and are offered at an official PLTW site. They provide an understanding of the engineering/technology field. Students typically explore how engineers use technology systems and manufacturing processes to solve problems as well as arrive at an appreciation of the social and political consequences of technological change.

21005 Engineering–Comprehensive

Courses in this classification introduce major engineering concepts such as modeling, systems, design, optimization, technology-society interaction and ethics. Topics include applied engineering graphic systems, communicating technical information, engineering design principles, material science, research and development processes, and manufacturing techniques and systems. Courses often address opportunities and challenges in various branches of engineering.

21006 PLTW–Introduction to Engineering Design™

Courses in this classification adhere to the PLTW curriculum and are offered at an official PLTW site. They offer experience in solving problems by applying a design development process. Students often use solid modeling, computer design software to develop, analyze, and test product solutions models.

21007 PLTW–Engineering Design and Development™

Courses in this classification adhere to the PLTW curriculum and are offered at an official PLTW site. They provide the opportunity for students to apply engineering research principles as they design and construct a solution to an engineering problem. Students typically develop and test solutions using computer simulations or models but eventually create a working prototype as part of the design solution.

21008 PLTW–Digital Electronics™

Courses in this classification adhere to the PLTW curriculum and are offered at an official PLTW site. They teach students how to use applied logic in the development of electronic circuits and devices. Students may use computer simulation software to design and test digital circuitry prior to the actual construction of circuits and devices.

21009 Robotics

Courses in this classification develop and expand students' skills and knowledge so that they can design and develop robotic devices. Topics may include mechanics, electrical and motor controls, pneumatics, computer basics and programmable logic controllers.

21010 PLTW–Computer Integrated Manufacturing™

Courses in this classification adhere to the PLTW curriculum and are offered at an official PLTW site. They involve the study of robotics and automation. Building on computer solid modeling skills, students may use computer numerical control (CNC) equipment to produce actual models of their three-dimensional designs. Topics may also include fundamental concepts of robotics, automated manufacturing, and design analysis.

21011 Civil Engineering

Courses in this classification explore the concepts and skills used by urban planners, developers and builders. Students may be trained in soil sampling and analysis, topography and surveying, and drafting or blueprint reading. Additional course topics may include traffic analysis, geologic principles, and urban design.

21012 PLTW–Civil Engineering and Architecture™

Courses in this classification adhere to the PLTW curriculum and are offered at an official PLTW site. They provide an overview of the fields of civil engineering and architecture while emphasizing the interrelationship of both. Students typically use software to address real world problems and to communicate the solutions they develop. Topics typically include the roles of civil engineers and architects, project-planning, site-planning, building design, project documentation and presentation.

21013 PLTW–Aerospace Engineering™

Courses in this classification adhere to the PLTW curriculum and are offered at an official PLTW site. They introduce students to the world of aeronautics, flight and engineering. Topics include the history of flight, aerodynamics and aerodynamics testing, flight systems, astronautics, space life systems, aerospace materials and systems engineering.

21014 Biotechnical Engineering

Courses in this classification enable students to develop and expand their knowledge and skills in biology, physics, technology, and mathematics. Course content may vary widely, drawing upon diverse fields such as biomedical engineering, biomolecular genetics, bioprocess engineering, agricultural biology, or environmental engineering. Students may engage in problems related to biomechanics, cardiovascular engineering, genetic engineering, agricultural biotechnology, tissue engineering, biomedical devices, human interfaces, bioprocesses, forensics, and bioethics.

21015 Particular Topics in Engineering

Courses in this classification examine specific topics in engineering other than those already described.

21016 Principles of Engineering

Courses in this classification 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.

21017 Engineering Design

Courses in this classification 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.

21018 Engineering Design and Development

Courses in this classification provide students with the opportunity to apply engineering research principles as they design and construct a solution to an engineering problem. Students typically develop and test solutions using computer simulations or models but eventually create a working prototype as part of the design solution.

21019 Digital Electronics

Courses in this classification teach students how to use applied logic in the development of electronic circuits and devices. Students may use computer simulation software to design and test digital circuitry prior to the actual construction of circuits and devices.

21020 Computer Integrated Manufacturing

Courses in this classification involve the study of robotics and automation. Building on computer solid modeling skills, students may use computer numerical control (CNC) equipment to produce actual models of their three-dimensional designs. Course topics may also include fundamental concepts of robotics, automated manufacturing, and design analysis.

21021 Civil Engineering and Architecture

Courses in this classification provide students with an overview of the fields of Civil Engineering and Architecture while emphasizing the interrelationship of both fields. Students typically use software to address real world problems and to communicate the solutions that they develop. Course topics typically include the roles of civil engineers and architects, project-planning, site-planning, building design, project documentation, and presentation.

21022 Aerospace Engineering

Courses in this classification introduce students to the world of aeronautics, flight, and engineering. Topics covered in the course may include the history of flight, aerodynamics and aerodynamics testing, flight systems, astronautics, space life systems, aerospace materials, and systems engineering.

21023 Biotechnical Engineering

Courses in this classification enable students to develop and expand their knowledge and skills in biology, physics, technology, and mathematics. Course content may vary widely, drawing upon diverse fields such as biomedical engineering, biomolecular genetics, bioprocess engineering, agricultural biology, or environmental engineering. Students may engage in problems related to biomechanics, cardiovascular engineering, genetic engineering, agricultural biotechnology, tissue engineering, biomedical devices, human interfaces, bioprocesses, forensics, and bioethics.

21024 PLTW Environmental Sustainability™

Courses in this classification help students investigate and design solutions in response to real-world challenges related to supply and access to drinking water, food supply issues, and renewable energy.

21025 PLTW Environmental Design and Development™

Courses in this classification are a capstone course for the PLTW Engineering program. Students use knowledge obtained in previous courses to identify an issue and research and design a solution. Students may present the results of their solution to a panel of engineers.

B. Technology

21051 Technological Literacy

Courses in this classification explore the communication, transportation, energy, production, biotechnology, and integrated technology systems and processes that affect their lives. The focus is to support students in understanding technological systems, their applications and uses.

21052 Technological Processes

Courses in this classification provide students the opportunity to focus on one or more areas of industrial technology, applying technological processes to solve real problems and developing the knowledge and skills to design, modify, use, and apply technology appropriately. Students examine case studies, explore simulations, or design and build prototypes and working models.

21053 Emerging Technologies

Courses in this classification focus on examining and understanding new and emerging technologies. Topics vary but typically include lasers, fiber optics, electronics, robotics, computer technologies, CAD/CAM, communication modalities and transportation technologies.

21054 Technology Innovation and Assessment

Courses in this classification focus understanding how criteria, constraints, and processes affect engineering design solutions and provide the skills to assess technological solutions. Topics include brainstorming, visualizing, modeling, simulating, constructing, testing and refining designs.

21055 Aerospace Technology

Courses in this classification introduce the technology systems used in the aerospace industry and their interrelationships. Examples of such systems include satellite communications systems, composite materials in airframe manufacturing, space station constructions techniques, space shuttle propulsion systems, aerostatics and aerodynamics.

21056 Particular Topics in Technology Applications

Courses in this classification examine specific topics in technology applications other than those already described.

21057 Laser/Fiber Optics

Courses in this classification explore the history, safety and theory of laser light and laser systems. They examine various laser system configurations and operations.

21058 Geospatial Technology

Courses in this classification provide experiences in the study of geographic information systems (GIS), global positioning systems (GPS), remote sensing (RS), digital image processing simulator (DIPS), Geodesy, automated cartography (Auto-Carto), land surveying (LS) and navigation. They may use spatial analysis models and guidelines for integrating, interpreting, analyzing and synthesizing geographic data, with a focus on both the implications and limitations of such technologies. Other topics may include interfacing with telecommunications and automated database management systems.

21059 Modeling and Simulation Technology

Courses in this classification explore the use of modeling, simulations and game development software to solve real-world problems in science, technology, engineering and mathematics (STEM). Courses typically address the systems, processes, tools and implications of the field of modeling and simulation technology. Topics may also include evaluating and testing engineering designs, modeling geospatial data, observing and analyzing physics simulations, programming games for educational purposes and creating visualization systems with 3D models.

21060 Wind Energy

Courses in this classification introduce the terminology and related aspects of the wind industry. Topics may include the history and development of the wind industry, types and applications of various wind turbines, environmental and economic issues of the wind industry as well as the future of the industry.

21061 Wind Turbine Construction and Operation

Courses in this classification provide an understanding of wind turbine operation and the wind energy industry. Topics include the study of site preparation and construction, turbine component specifications and manufacturing, operation and maintenance programs, and data acquisition and assessment.

21062 IB Design, Middle Years Program

Courses in this classification are essentially concerned with solving problems, and they encourage students to investigate, design, plan, create, and evaluate. Content is balanced among systems, information, and materials, but the particular technology subjects may vary. These courses were formerly known as IB Technology, Middle Years Program.

C. Drafting

21101 Drafting Careers Exploration

Courses in this classification introduce basic skills, the field in general and occupations within the field. They also provide students with the opportunity to identify a focus for continued study.

21102 Drafting—General

Courses in this classification, usually offered in a sequence, introduce drawing illustrations to represent and/or analyze design specifications. They develop knowledge and skill to perform freehand sketching, lettering, geometric construction, and multi-view projections and to produce various types of drawings. Computer-aided drafting (CAD) systems (if available) are typically introduced.

21103 Drafting—Architectural

Courses in this classification refine the craft of drawing illustrations to represent and/or analyze design specifications. They develop general drafting skills and focus on interior and exterior residential and/or light commercial design, site orientation, floor and electrical plans, and presentation drawings. In addition, students may prepare scale models.

21104 Drafting—Civil/Structural

Courses in this classification refine the drawing of illustrations to represent and/or analyze design specifications. The courses help students develop general drafting skills and focus on skills needed for typography and survey work.

21105 Drafting—Electrical/Electronic

Courses in this classification refine the drawing of illustrations to represent and/or analyze design specifications. They help students develop general drafting skills and focus on skills needed for electrical and electronic schematics.

21106 Drafting—Technical/Mechanical

Courses in this classification refine the drawing of illustrations to represent and/or analyze design specifications. They help students develop general drafting skills and focus on sectioning, auxiliary views, revolutions, and surface development. Students typically learn basic machining and fabrication processes as they draw schematic diagrams featuring cams, gears, linkages, levers and pulleys.

21107 CAD Design and Software

Courses in this classification are frequently offered as an intermediate step to or a concurrent course with more advanced drafting courses and introduce students to the computer-aided drafting systems.

21108 Blueprint Reading

Courses in this classification focus on knowledge and ability to interpret the lines, symbols and conventions of drafted blueprints. They generally emphasize interpreting, not producing, blueprints, although the courses may provide both types of experiences.

D. All Others

21990 Engineering and Technology–Work Experience Classroom

Courses in this classification accompany work experience programs (apprenticeships or work-based learning) and typically involve further study of the field and discussion of experiences in the workplace.

21991 Engineering and Technology–Student Leadership

Courses in this classification develop students' personal and group leadership skills and typically focus on effective communication, decision-making, problem-solving and completion of group activities. Courses may include participation in student organizations, such as SkillsUSA. Or, all of these activities may be embedded in other engineering and technology courses.

21992 Engineering and Technology–Apprenticeship

Courses in this classification provide students with supervised workplace training in engineering and technology. Goals are typically set cooperatively by the student, school coordinator and mentor/employer (although students are not necessarily paid). Students' work is evaluated by the school coordinator and mentor/employer. These courses are accompanied by a classroom component (see 21990 Work Experience Classroom above).

21995 Engineering and Technology–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

21996 Seminar/Project–Engineering and Technology

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in engineering and technology. They may include college and/or career exploration and planning. Students often design a project based on their areas of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit and other projects required for graduation.

21997 Engineering and Technology–Independent Study

Courses in this classification, often conducted with instructors as mentors, enable students to explore topics of interest related to engineering and/or technology. These courses may serve as an opportunity for students to expand their expertise, explore a topic in detail, or develop advanced skills.

21998 Engineering and Technology–Work-Based Learning

Courses in this classification provide students with work experience in a field related to engineering or technology. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). Students' work is supervised and evaluated by a school coordinator and the employer. These courses are accompanied by a classroom component (see 21990 Work Experience Classroom above).

21999 Engineering and Technology–Other

(Provide local course description.)

Subject Area 22: Family and Consumer Science

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) course classifications are written to describe all grades in the K-12 span unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. Some local courses combine two MCCC course classifications or topics and no MCCC classification exists for that particular combination. If one of the topics in the local course receives the majority of the instructional and assessment focus, classify the local course under the MCCC classification for that topic. If all topics are of equal focus, use the “Other” course classification at the end of the subject area to classify the local combination and provide a brief description of local course content.
2. Additional clothing construction and home furnishing courses are included in **19 Human Services, Category E: Apparel and Furnishing**.
3. Food preparation courses that focus on a specialty such as baking or an ethnic food can be accurately matched to *22051 Food and Nutrition* as the classification description does allow for an emphasis on specific types of food preparation or nutrition.
4. Courses in food preparation, the food industry and food service including careers in the industry are also listed in **16 Hospitality and Tourism**.
5. There are three child psychology/development course classifications each with a slightly different emphasis depending on the focus of the course. They include *19051 Child Care* and *19052 Child Development* in **19 Human Services** and *22101 Child Development/Parenting* in this subject area.

III. Family and Consumer course categories

Category	Code Range
Comprehensive	22(001)–22(050)
Food and Nutrition	22(051)–22(100)
Children, Family and Personal	22(101)–22(150)
Clothing and Décor	22(151)–22(200)
All Others	22(990)–22(999)

A. Comprehensive

22001 Family and Consumer Science—Comprehensive

Courses in this classification are inclusive of the knowledge and skills that are useful for efficient and productive home management. 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.

22002 Family and Consumer Science Career Exploration

Courses in this classification introduce careers that involve efficient and productive home management. Topics vary depending on the careers being explored but may include exploration in foods and nutrition; clothing; child development and care; housing design, decoration, and maintenance; consumer decisions and personal financial management; and interpersonal relationships.

22003 Family and Consumer Science Youth Service

Courses in this classification engage students in family and consumer related community or school service projects. These courses typically use service experience as a learning opportunity to improve students' problem-solving, decision-making and communication skills.

B. Food and Nutrition

22051 Food Preparation and Health Management (Renamed from Food and Nutrition)

Courses in this classification provide instruction in how to plan and prepare food, experience in the proper use of equipment and utensils and understanding of food's role in society, including nutritional requirements for healthy living. Some classes place a heavier emphasis on the nutritional components of a balanced diet, while others concentrate on general or specific types of food preparation. Although career opportunities in the food industry may be presented, that is not the emphasis of these courses.

22052 Food Science

Courses in this classification offer opportunities to study the composition, structure and properties of foods, including 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.

22053 Nutrition and Wellness

Courses in this classification focus on how physical, mental, social, psychological, and emotional wellness are related to food, food selection, and health. Topics typically include dietary needs across one's lifespan, stress management, special dietary issues, and eating disorders as well as societal and genetic health issues that are addressed through the prevention education component of the class. Other topics covered range from healthy food selection, label reading, and diet analysis to understanding additives, making wise food choices, and dealing with food allergies.

C. Children, Family and Personal

22101 Child Development/Parenting

Courses in this classification provide knowledge about the physical, mental, emotional, and social growth and development of children from conception to pre-school age. They also help students understand how parents and caregivers should respond to the various stages of childhood. Topics include prenatal and birth processes; responsibilities and difficulties of parenthood; fundamentals of children's emotional and physical development; and the appropriate care of infants, toddlers and young children.

22102 Family Living/Interpersonal Relationships

Courses in this classification focus on building and maintaining healthy interpersonal relationships. Course emphasis is on family relationships, but may include relationships to other members of society. Topics may include, but are not limited to, interpersonal communication, social/dating practices, human sexuality and reproduction, marriage preparation, parenthood and the function of the family unit, and the various stages of life. Individual self-development, personal awareness and preparation for responsibilities as a family member and wage earner may be included.

22103 Life Skills

Courses in this classification provide information about becoming productive adults. Topics may include goal-setting, decision-making, problem-solving and setting priorities; money and time management; relationships; and the development of the self. Insurance, taxation, and consumer protection may be addressed. Practical exercises in selecting and furnishing housing, meeting transportation needs, preparing food, and selecting clothing are often included.

22104 Personal Awareness/Teen Issues

Courses in this classification emphasize issues important to teens such as, but not limited to, friendships, jobs, sexuality, chemical use, divorce and/or blended families and may support students in examining and identifying alternative behaviors and coping techniques. They typically include goal-setting, decision-making, problem-solving, and managing time, energy, and stress and often allow students to explore various career and lifestyle choices.

22105 Personal Development

Courses in this classification are similar to Interpersonal Relationships/Family Living courses but focus on the individual and emphasize strengthening communication skills, self-esteem, recognizing and resisting negative peer pressure, and developing coping skills for dealing with change in one's self and others. These courses may also have a substance-abuse prevention component.

22106 Consumer Economics

Courses in this classification provide understanding of resource management, including goals, choices and actions as well as policies that support consumer rights and responsibilities. Topics may include earning a living, budgeting, savings and investing; using credit; spending patterns and budget planning; buying goods and services; and some basic consumer legal rights and issues.

22107 Human Growth and Development

Courses in this classification focus on the application of human development theories and stages of growth to the relationships among individuals at various stages of life, as well as provide an understanding of how people change across their lifespans. Course content may include the application of human development theories in family systems and community settings. Interactions of grandparents and their grandchildren, adult children and their aging parents, as well the similarities between caring for the elderly and caring for young children may also be explored.

22108 Values Clarification

Courses in this classification 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).

D. Clothing and Décor

22151 Clothing/Sewing

Courses in this classification provide knowledge of wearing apparel, sewing and fashion. They emphasize construction of garments and may include wardrobe planning, including selection, care and repair. Fashion design, fashion history, the social and psychological aspects of clothing, careers in the clothing industry and craft sewing may be included.

22152 Housing and Home Furnishings

Courses in this classification provide knowledge and skills in interior design and decoration for the individual or family home. Topics include design principles, personal needs and style, and decision-making, Color, texture, furniture styles and arrangement, accessories, lighting, window treatments, floor and wall coverings, and home improvements or modification may also be included. Courses emphasize personal rather than commercial use of décor principles.

22153 Needlework

Courses in this classification provide knowledge and skills in needlework, such as knitting, crocheting, counted cross-stitch, needlepoint and embroidery. Topics include design principles, elements of color and texture, personal needs and style, and decision-making. Courses emphasize use of home décor or fashion principles.

E. All Others

22990 Family and Consumer Science–Work Experience Classroom

Courses in this classification accompany work experience programs (apprenticeships or work-based learning) and typically involve further study of the field and discussion of experiences in the workplace.

22991 Family and Consumer Science–Student Leadership

Courses in this classification develop students' personal and group leadership skills and typically focus on effective communication, decision-making, problem-solving and completion of group activities. Courses may include participation in student organizations, such as Family, Career and Community Leaders of America (FCCLA). Or, all of these activities may be embedded in other family and consumer science courses.

22992 Family and Consumer Science–Apprenticeship

Courses in this classification provide students with supervised workplace training in family and consumer science. Goals are typically set cooperatively by the student, school coordinator and mentor/employer (although students are not necessarily paid). Students' work is evaluated by the school coordinator and mentor/employer. These courses are accompanied by a classroom component (see 22990 Work Experience Classroom above).

22995 Family and Consumer Science–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

22996 Family and Consumer Science–Independent Study

Courses in this classification, often conducted with instructors as mentors, enable students to explore topics of interest related to home- and self-management. These courses provide students with an opportunity to expand their expertise in a particular application, to explore a topic in detail, or develop advanced skills.

22997 Seminar/Project–Family and Consumer Science

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in family and consumer science. They may include college and/or career exploration and planning. Students often design a project based on an area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit and other projects required for graduation.

22998 Family and Consumer Science—Work-Based Learning

Courses in this classification provide students with work experience in a field related to family and consumer science. Goals are typically set cooperatively by the student, teacher and employer (although students are not necessarily paid). Students' work is supervised and evaluated by a school coordinator and the employer. These courses are accompanied by a classroom component (see 22990 Work Experience Classroom above).

22999 Family and Consumer Science—Other

(Provide local course description.)

Subject Area 23: Academic and Career Development

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) course classifications are written to describe all grades in the K-12 span unless otherwise indicated in the title or description. Classify local courses according to these multi-grade descriptions even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. Special education courses are listed in this subject area under **Category E. Support Services**, with the exception of adapted physical education, which is listed as *08007 Adapted Physical Education* in **08 Physical, Health, and Safety Education**.
2. Local Advancement via Independent Determination (AVID) courses, not considered an advisory, are most appropriately classified as *23154 College/Postsecondary Education Exploration*.
3. Independent study courses that offer students the opportunity to work in an area of personal interest are best classified under a specific subject area course classification if possible. All subject areas have independent study classifications. Use *23997 Nonspecific Subject Area–Independent Study* only when the local course is not related to a particular subject area or encompasses multiple subject areas.
4. Seminar/project-based courses that offer students the opportunity to explore areas of personal interest are best classified under a specific subject area if possible. All subject areas have seminar/project classifications. Use *23009 Seminar/Project–Nonspecific Subject Areas* only when the local course is not related to a specific subject area or encompasses multiple subject areas.
5. Field study courses that offer students the opportunity live and/or work in area of science or social studies significance are best classified under *03213 Field Studies–Science* or *04982 Field Studies–Social Studies*. If local field studies courses do not fit under either the science or social studies subject areas, they may be classified under *23008 Field Studies–Nonspecific Subject Area*.
6. All subject areas have specific student aide classifications. Use subject area specific student aide classifications if possible rather than *23055 Nonspecific Subject Area–Aide*.
7. All career and technical education subject areas have specific apprenticeship and work-based learning course classifications. Use *23992 Diversified Subject Areas–Apprenticeship* and *23998 Diversified Subject Areas–Work-Based Learning* when the local course is not related to a specific subject area or encompasses multiple subject areas.
8. All career and technical education subject areas have specific work experience program classroom courses. Use *23990 Diversified Subject Area–Work Experience Classroom* when the local course is not related to a specific subject area or encompasses multiple subject areas.

III. Academic and Career Development course categories

Category	Code Range
A. Academic Enrichment	23(001)–23(050)
B. Staff Assistance	23(051)–23(100)
C. School and Community Organization/Leadership	23(101)–23(150)
D. College and Career Exploration/Development	23(151)–23(200)
E. Support Services/Special Education	23(201)–23(400)
F. English Language Development	23(401)–23(499)
G. All Others	23(990)–23(999)

A. Academic Enrichment

23001 Standardized Test Preparation

Courses in this classification prepare students for national standardized tests such as the PSAT, SAT, and ACT. They assist in developing and expanding vocabulary, test-taking, and reasoning skills. Topics may include historical/geographic issues, composition, literary, mathematical and/or scientific concepts, logic, and rules. Problem-solving and test-taking strategies may be included.

23003 Study Skills

Courses in this classification support success in high school and/or postsecondary education. Topics may vary but typically include reading skills, such as scanning, note taking, and outlining; library, research and general organization skills; vocabulary building and test-taking skills. Organized, logical thinking and writing may be included.

23004 Dropout Prevention

Courses in this classification vary widely, but typically focus on students at risk of dropping out of or failing in school. Content may include study skills and individual tutorials; job preparation, readiness, application, and interview skills; communication skills; personal assessment and awareness activities; speaker presentations; and small group seminars.

23005 Tutorial

Courses in this classification provide assistance to students who need support to successfully complete coursework. Students may receive help in one or several subjects.

23006 Study Hall

Courses in this classification provide opportunity and time to complete classroom assignments or school projects. Students typically work on independently; however, they are supervised.

23007 Homeroom/Advisory

Courses in this classification vary widely depending on the philosophy, aims and methods of the school. They may provide opportunities, for example, to build small peer communities, focus on particular topics such as a common reading text, plan and execute enriched learning experiences or engage in community service projects. Courses also may enable students to accomplish school-related tasks such as planning schedules and registering for courses.

23008 Field Studies–Nonspecific Subject Area

Courses in this classification provide students with the opportunity and time to work and/or live in an area that has significance of an ecological, geographical, geological, historical, cultural or biological nature. Topics of study vary and are often encompass multiple disciplines. Students typically work with local experts and may be involved in observation, research, preservation, restoration or improvement projects.

23009 Seminar/Project–Nonspecific Subject Area

Courses in this classification vary widely. Topics of study often include multiple content areas and typically offer the student an opportunity to investigate areas of interest. Courses may include college and career exploration and planning. They often require students to design and complete a project and to work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

23010 College Course–Direct Pay PSEO

Use this course classification when no defined MCCC classification within this document is an appropriate classification for a college course on a Direct Pay PSEO Student Record. Please try to find an appropriate defined MCCC classification before using this generic classification.

23011 Advanced Placement (AP) Seminar

Courses in this classification parallel college-level courses in critical thinking and communication. They provide opportunities to explore complex real world issues through cross-curricular lenses. Topics vary and may include local, civic or global issues and interdisciplinary subject areas. Courses emphasize research, communication and critical thinking skills during exploration of issues addressed. Courses promote the examination of source materials such as articles and other texts, speeches and personal accounts, including relevant artistic and literary works.

23012 State Test Preparation

Courses in this classification 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.

23013 IB Creativity, Action, Service

Courses in this classification are a required extracurricular component of the International Baccalaureate program. The CAS requirement emphasizes the importance of life outside of the world of scholarship and encourages young people to share their energies and special talents while they develop awareness, concern, and the ability to work cooperatively with others. Participation in theater productions, sports, and community service are examples of activities that fulfill the CAS course requirements.

23014 IB Personal Project, Middle Years Program

Courses in this classification occur during the final year of the program and should result in a significant piece of work that is the product of the student's own initiative and creativity. Students choose their projects, which may take many forms, and complete them under the supervision of a teacher. Projects involve planning, research, and a high degree of personal reflection.

23016 IB Extended Essay

Courses in this classification are obligatory for every International Baccalaureate degree candidate, IB Extended Essay aim to help students develop an independent, self-directed piece of research, culminating in a 4,000 word paper. These courses provide students with practical preparation for later research and help build their analysis, synthesis, and evaluation skills.

23017 IB Approaches to Learning

Courses in this classification are obligatory for every International Baccalaureate Career-related Certificate, IB Approaches to Learning courses introduce students to life skills to enable them to engage critically with others. Course topics include ethical dilemmas, deductive and inductive reasoning, culture shock, academic honesty, and emotional intelligence.

23018 AP Research

Courses in this classification provide students with the opportunity to conduct an in-depth, mentored research project. Course topics include research methods, ethical research practices, and accessing, analyzing, and synthesizing information to address a research question. Courses culminate with an academic thesis paper and an oral defense of the research design, approach, and findings.

23019 IB Personal and Professional Skills

Courses in this classification are a required component of the International Baccalaureate's Career-related program. Intended to develop attitudes, skills, and strategies applicable to both personal and professional situations, these courses emphasize personal growth and development, interpersonal skills, intercultural understanding, and the use of ethics. IB Personal and Professional Skills courses are linked to students' career-related studies and may include work-based experiences.

23020 IB Primary Years Program

Courses in this classification incorporate the six transdisciplinary themes defined by the International Baccalaureate Organization as the framework for exploration and study at the primary level. Those themes are who we are, where we are in place and time, how we express ourselves, how the world works, how we organize ourselves, and sharing the planet. The course addresses multiple subject areas through the framework of these themes, including language; social studies; mathematics; arts; science; and personal, social, and physical education.

B. Staff Assistance

23051 Office Aide

Courses in this classification provide the opportunity to work in school offices, developing skills related to clerical office work. Duties may include typing, filing, record-keeping, receiving visitors, answering the telephone and duplicating. These courses emphasize appropriate work attitudes, human relations, and proper office procedures.

23052 Guidance Aide

Courses in this classification provide the opportunity to work in the school guidance office. Duties may include typing, filing, record-keeping, assisting students, answering the telephone and duplicating. Students may also act as guides to new students. These courses emphasize appropriate work attitudes, human relations, and proper office procedures.

23053 Library/AV Aide

Courses in this classification provide the opportunity to work in the school library or media/audiovisual centers. Duties may include collecting, distributing, and categorizing materials; operating audiovisual equipment; assisting students and teachers; and performing clerical duties. Students typically gain experience in library science and/or technology.

23054 Tutoring Practicum

Courses in this classification provide students with the opportunity to offer tutorial assistance to their peers or to work with younger (often elementary or middle school) students. After an initial training, students engage in tutoring and assisting others who need or request help.

23055 Nonspecific Subject Area–Aide

Courses in this classification offer 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.

Note: Use the course number for aides within the specific subject area if possible.

C. School and Community Organization/Leadership

23101 Nonspecific Subject Area Leadership

Courses in this classification strengthen students' personal and group leadership skills. Typically, they develop particular leadership skills associated with a specific school or community organization and may involve extracurricular and co-curricular activities such as officers of organizations, student activities or student governing bodies. Content may address a variety of topics such as public speaking, effective communication, human relations and social skills, parliamentary law and procedures, organization and management, group dynamics and leadership strategies.

23102 School Orientation

Courses in this classification introduce the culture of a school so that students understand staff expectations and the school's structure and conventions. These courses may vary widely according to the nature of the local school.

23103 School Governance

Courses in this classification 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 alternative or experimental schools.

23104 Community/School Service Learning

Courses in this classification provide the opportunity to volunteer time, energy, and talents to serve a community or school project or organization. These courses are often conducted with a seminar component, so that students can use their volunteer experiences to learn how to solve problems, make decisions, and communicate effectively.

23105 Peer Counseling

Courses in this classification allow students to serve as leaders to reduce conflict among their fellow students. Students may work individually or as part of a group to solve problems and promote mutual support among their peers.

23106 Academic Competition

Courses in this classification prepare students to compete individually or in teams in organized contests that test their academic knowledge and skills. Specific content depends upon the competition (examples include Academic Decathlon or Pentathlon, Model UN, subject-specific Olympiads, and Odyssey of the Mind); however, these courses typically foster research, public speaking, critical thinking, and teamwork skills. (Courses that focus on Forensics/Debate competitions should be coded with one of the Forensic Speech course codes.)

D. College and Career Exploration/Preparation

23151 Career Exploration

Courses in this classification support students in identifying and evaluating personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. Content explores various sources of information on career and post-secondary options and may also assist students in developing a variety of skills including, but not limited to, investigation, presentation, job search and employability.

23152 Career Skills

Courses in this classification 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. Consumer education and money management may be included.

23153 Occupation/Work Skills

Courses in this classification support students entering the workforce and focus on career exploration, job search and application, and the development of positive work attitudes and work-related skills. Employment may be a required component of these courses, and/or students may be required to enroll concurrently in a work experience course. These courses typically cover such topics as career planning and selection, money management, communication skills, interpersonal business relationships and behaviors, and personal responsibility.

23154 College/Postsecondary Education Exploration

Courses in this classification prepare students for college eligibility and success while exposing them to various sources of information on postsecondary education options. They often help students examine personal goals, priorities, aptitudes, and interests with the goal of supporting them in making informed decisions about college or postsecondary education choices. Topics of study may include organizational and study skills, critical thinking and discussion, research and investigatory skills, collaboration and communication skills with the aim of making postsecondary education attainable.

Note: This classification includes Advancement Via Individual Determination (AVID) programs of study.

E. Support Services/Special Education

These courses are typically developed and offered to meet the Individual Education Plan (IEP) goals of students with special needs. Instruction and curriculum often varies widely based on student needs.

Note: The adapted physical education course classification number is 08007. The classification description is in **08 Physical, Health and Safety Education** and is not repeated in this subject area.

23201 English/Language Arts–Support Services

Courses in this classification typically include study of various types of literature while developing reading, writing, listening and speaking skills. As appropriate, these courses may include, but are not limited to, improving comprehension, identifying literary elements, analyzing, interpreting, and evaluating literature and improving writing skills, including using a process to write for different purposes. Courses may address state standards and include preparation for reading and writing tests.

23202 Reading–Support Services

Courses in this classification focus on development of reading skills. They may include, but are not limited to, improving reading comprehension and speed; decoding, breaking multi-syllable words into parts, identifying and sequencing main ideas and supporting details; finding facts, making inferences and drawing conclusions; paraphrasing and summarizing, interpreting and evaluating fiction and nonfiction texts while strengthening vocabulary. Courses may address state standards and include preparation for reading tests.

23203 Reading and Writing–Support Services

Courses in this classification focus on development of both reading and writing skills. Courses are similar to the reading course listed above but include the mechanics, elements and process of writing. They typically emphasize using specific strategies to accomplish reading or writing tasks within a given context. Courses may address state standards and include preparation for reading and writing tests.

23204 Writing–Support Services

Courses in this classification focus on developing the skills and practices necessary for producing writing for a variety of purposes and audiences. They may address various types of writing such as academic, technical, creative and business or place more emphasis on one type. Courses may address state standards and include preparation for writing tests.

23205 Language Arts/Social Studies Combination–Support Services

Courses in this classification integrate development of language arts skills such as reading, writing, listening and speaking with development of social studies knowledge and skills, which may include aspects of history, geography, government, citizenship, economics and/or culture, such as music and art.

23206 Language Arts Seminar/Project–Support Services

Courses in this classification vary widely, but typically allow students to investigate areas of interest in language arts. Students may design individual projects and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. They may include college and/or career exploration.

23209 Particular Topics in Language Arts–Support Services

Courses in this classification address particular topics or academic content not described in language arts course classification previously listed.

23210 Mathematics–Support Services

Courses in this classification focus on mastering math skills and concepts. These courses vary but often focus on life skills in mathematics. Topics may include, but are not limited to, review of basic math skills and concepts, money and banking, measurement, preparation for algebra and/or geometry, consumer math and use of calculators. Courses may address state standards and include preparation for math tests.

23211 Algebra–Support Services

Courses in this classification focus on practical applications of algebraic concepts. They may include, but are not limited to, properties of real numbers, solving and graphing linear equations and inequalities, exponents and exponential functions, and polynomials and factoring. Courses may address state standards and include preparation for math tests.

23212 Geometry–Support Services

Courses in this classification focus on geometric concepts and may review algebraic concepts. They may include, but are not limited to, reasoning and proof, parallel and perpendicular lines, congruent triangles, quadrilaterals and circles, transformations, area and volume. Courses may address state standards and include preparation for math tests.

23213 Technical/Consumer Math–Support Services

Courses in this classification vary but typically include math skills and banking/money management. Problem-solving and practical application of mathematical knowledge and skills are emphasized. Skills work may include, but is not limited to, whole number operations, fractions and decimals. Courses may address state standards and include preparation for math tests.

23214 Mathematics Seminar/Project–Support Services

Courses in this classification vary widely, but typically allow students to investigate areas of interest in mathematics. Students may design individual projects and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. They may include college and/or career exploration.

23219 Particular Topics in Math–Support Services

Courses in this classification address particular topics or academic content not described in math course classification previously listed.

23220 Science–Support Services

Courses in this classification introduce skills and concepts from disciplines within the science field and often apply science to everyday life. They may include topics from biology, chemistry, physics, earth and space sciences. Examples include environmental issues, forensics and marine exploration. Courses may address state standards and include preparation for science tests.

23221 Physical Science–Support Services

Courses in this classification develop skills and concepts associated with chemistry and/or physics. They typically focus on the interactions among physical systems encountered in everyday life. Courses address state standards and include preparation for science tests.

23222 Biology/Life Science–Support Services

Courses in this classification develop understanding of the interdependence among living things. Topics of study may include, but are not limited to, cell structures and functions, cellular process, genetics, classification and diversity, plant/animal life and the human body. Courses may address state standards and include preparation for science tests.

23223 Earth Science–Support Services

Courses in this classification examine the environment on earth and the earth's environment in space. Topics explored may include, but are not limited to, geography, meteorology, astronomy, geology, and oceanography. Courses may address state standards and include preparation for science tests.

23224 Science Seminar/Project–Support Services

Courses in this classification vary widely, but typically allow students to investigate areas of interest in science. Students may design individual projects and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. They may include college and/or career exploration.

23229 Particular Topics in Science–Support Services

Courses in this classification address particular topics or academic content not described in science course classification previously listed.

23230 U.S. History–Support Services

Courses in this classification may provide an overview of U.S. history or examine selected events and historical periods. Content may be inclusive and address aspects of U.S. government, the legal system, economics and politics.

23231 World History–Support Services

Courses in this classification may provide an overview of world history or examine selected events and historical periods. Course content may be inclusive and address aspects of government, legal systems, economics and politics.

23232 Civics/Government–Support Services

Courses typically examine the U.S. Government, constitutional law and the rights and responsibilities of U.S. citizens. Topics may include the U.S. constitution and its amendments, structure of the government and political system, and how citizens interact with the government. Government policies and processes are typically included.

23233 Geography/Human Geography–Support Services

Courses in this classification may examine various regions of the world or emphasize a particular area such as the United States. They focus on geographical features and may include, but are not limited to, topics such as population, natural resources, politics, culture, current issues and the impact of the physical environment on people.

23234 Global Studies–Support Services

Courses in this classification typically focus on geography and current events in selected regions of the world. Topics may include, but are not limited to, political, economic, social and culture issues.

23235 Economics–Support Services

Courses in this classification typically provide an overview of economics, including different economies and economic systems. Topics may include, but are not limited to, nature and functions of markets, price determination, roles and functions of consumers and producers, income distribution, role and function of government in economics, and economic growth and development.

23236 Social Studies Seminar/Project–Support Services

Courses in this classification vary widely, but typically allow students to investigate areas of interest in social studies. Students may design individual projects and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. They may include college and/or career exploration.

23239 Particular Topics in Social Studies–Support Services

Courses in this classification address particular topics or academic content not described in social studies course classifications previously listed.

23240 Health–Support Services

Courses in this classification develop the knowledge and skills to make health-promoting decisions. Content may address physical, mental and emotional wellness, including, for example, sexuality and reproduction, drug and alcohol use, nutrition, safety and emergency care concepts. Responsible decision-making and problem-solving strategies may be included.

23241 Health Seminar/Project–Support Services

Courses in this classification vary widely, but typically allow students to investigate areas of interest in health. Students may design individual projects and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. They may include college and/or career exploration.

23249 Particular Topics in Health–Support Services

Courses in this classification address a particular topic or content in health education.

23250 Visual and Media Art–Support Services

Courses in this classification typically introduce or reinforce the elements and principles of design. They may include exploration of various or selected visual or media art forms such as drawing, painting, sculpture, crafts, photography and video/film production. Courses may include art appreciation and the study of various styles and historical periods.

23251 Music–Support Services

Courses in this classification typically introduce or reinforce the elements and principles of music and may include music appreciation, history and production. Courses may include a study of a variety of styles and periods or emphasize selected styles and periods.

23252 Arts Seminar/Project–Support Services

Courses in this classification vary widely, but typically allow students to investigate interest in one or more of the arts areas, including dance, theater, music, media or visual arts. Students may design individual projects and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. They may include college and/or career exploration.

23253 Social Development Instruction

Courses in this classification teach students the social skills needed for independent functioning with the community. Topics may include self-control, self-expression, obeying rules, decision-making, appropriate situational behavior, interacting with others, and maintaining relationships. Students may develop independence, self-confidence, and self-reliance.

23259 Particular Topics in the Arts–Support Services

Courses in this classification address art forms such as theater or dance or particular topics in music or visual arts not described in course classifications previously listed.

23260 Academic Credit–Support Services

Courses in this classification offer students the opportunity to earn credits necessary to meet graduation or IEP requirements in academic areas such as English, math, science and social studies.

23269 Particular Topics in Academic Content Areas–Support Services

Courses in this classification address particular topics or academic content areas not described in course classifications previously listed.

23270 Study Skills–Support Services

Courses in this classification offer instructional support to successfully complete course work in content area classes. They typically include strategies for organizing and managing materials and time; effective study habits; test preparation; and project completion. Stress management and work on IEP goals may be included.

23271 Quiet Study–Support Services

Courses in this classification offer a quiet study/assignment completion period. Individualized assistance by peer tutors, volunteers or staff may be available. Students may also use the time to work on IEP goals.

23272 Direct Support–Support Services

Courses in this classification focus on direct support and/or instruction, often from the case manager, to address specific IEP goals. Courses may include support for success in other areas of study, including academic, social and functional skills. Topics vary but may include managing materials, use of a planner, taking notes, effective study habits, project completion and test-taking.

23279 Particular Topics in Study Skills–Support Services

Courses in this classification address particular topics or study skills not described in course classifications previously listed.

23280 Transition Strategies–Support Services

Courses in this classification emphasize the transition to postsecondary education/employment and include community participation, recreation and leisure activities, home and daily living. These courses provide strategies and experiences in functional living skills with the goal of readying students to live as independently as possible. Instruction varies with the students and their needs.

23281 Teen Relationships/Family Living–Support Services

Courses in this classification vary widely. They often address issues pertaining to communication, self-awareness and advocacy, relationships and family life. Topics may include, but are not limited to, peer pressure, self-esteem, stress, family roles and responsibilities, friendships and dating. Some courses may address child development and responsible parenting. Instruction varies with the students and their needs.

23282 Social Skills–Support Services

Courses in this classification emphasize interpersonal skills, typically including developing and maintaining relationships in school, work and community environments. Topics may include, but are not limited to, self-control, self-expression, obeying rules, decision-making, problem-solving, reading body language and non-verbal cues, appropriate situational behavior and interacting with others. Instruction varies with the students and their needs.

23283 Living Skills–Support Services

Courses in this classification provide skills and strategies necessary for living within the setting most appropriate to student needs. Topics may include, but are not limited to, interactions with others, budgeting, domestic skills, accessing available resources, emergency skills and disability awareness and disclosure. Some courses include securing and maintaining employment. Instruction varies with the students and their needs.

23289 Particular Topics in Social/Living Skills–Support Services

Courses in this classification address particular topics or social or living skills not described in course classifications previously listed.

23290 Career Planning–Support Services

Courses in this classification explore career options and build job-seeking skills. Topics may include, but are not limited to, analyzing personal interests, skills and aptitudes as well as the basics of finding and keeping a job. Activities, such as working within a group; writing resumes, filling out job applications and interviewing; practice in reading paychecks, understanding benefits, taxes and insurance; and on-the-job practices and behaviors, including work safety and dealing with conflict in the workplace may be included. Instruction varies with the students and their needs.

23291 Job Skills–Support Services

Courses in this classification may include selected topics and skills included in career planning courses but add developing job skills, such as, but not limited to, developing a work portfolio, networking, keyboarding, phone etiquette, customer service or related office skills.

Note: This is not a Career and Technical Education (CTE) work experience program classification; see courses *23390 Work Experience Classroom–Support Services* and *23398 Work-Based Learning–Support Services* for CTE program classifications

23292 Career Exploration/Applied Job Skills–Support Services

Courses in this classification may include selected topics and activities included in career planning courses but also include learning essential job skills by working at tasks in the school/district setting or at non-paid jobs within the community under the guidance of a job coach or teacher/supervisor.

Note: This is not a Career and Technical Education (CTE) work experience program classification; see courses *23390 Work Experience Classroom–Support Services* and *23398 Work-Based Learning–Support Services for CTE* program classifications.

23293 Keyboarding–Support Services

Courses in this classification introduce or reinforce keyboard skills and basic computer operation. They may also include using one or more software programs to create, edit, format and manipulate documents as well as other computer skills.

23294 Communication/Technology–Support Services

Courses in this classification introduce or develop technology skills to communicate ideas through visual images, printed material and audio segments. Course may explore various audiences and purposes including, but not limited to, business, information and entertainment. They may also focus on a particular purpose, audience and/or medium.

23299 Particular Topics in Career/Occupational Skills–Support Services

Courses in this classification address particular topics or study skills in the career/occupation area not described within the course classifications previously listed.

23300 Recreation/Leisure–Support Services

Courses in this classification explore various recreation and leisure activities and experiences and typically focus on the impact of physical activity on health. Instruction varies with student interests and needs.

23301 Community Exploration/Personal Mobility–Support Services

Courses in this classification address issues surrounding the use of public transportation; accessing community resources, such as stores, banks, post offices and library; use of community-based recreation and leisure activities, such as parks, museums and community events as well as personal safety in the community.

23302 Daily Living–Support Services

Courses in this classification address the knowledge and skills necessary for daily living in a domestic setting. They may include an overview or selected topics in personal hygiene, finding and maintaining a home, buying and preparing healthy and economic meals, and money management skills.

23307 Developmental Support

Courses in this classification are customized according to each student's condition and needs, emphasizing an increase in skill or control of body and mind function. Examples of support may include refinement of gross and fine motor skills, development of visual perception, and improvement in eye-hand coordination.

23308 Community Living

Courses in this classification place a special emphasis on the student's relationship to the surrounding community. Instruction varies with the students and their needs; however, these courses provide the skills necessary for independent functioning within the surrounding environment. Course topics may also include available community resources and how to access them, emergency skills, and independent living strategies.

23309 Particular Topics in Daily/Community Living–Support Services

Courses in this classification address particular topics in daily and community living, including leisure and recreation not described within the course classifications previously listed.

23310 Communication Instruction–Support Services

Courses in this classification are taught by a speech pathologist and individualized to meet student's needs. Focus is on understanding and using language to improve communication skills, including oral expression, listening comprehension, reading and writing. Topics may include vocabulary building, eye contact, giving and following directions, and conversation skills.

23311 Developmental Support–Support Services

Courses in this classification are customized according to each student's needs, emphasizing an increase in skill or control of physical and/or cognitive function. Examples of support may include refinement of gross and fine motor skills, development of visual perception or skills, and improvement in eye-hand coordination.

23319 Particular Topics in Development Support–Support Services

Courses in this classification address particular topics in developmental support not described within the course classifications previously listed.

23320 Integrated Program–Support Services

Courses in this classification are typically self-contained classrooms with an emphasis on providing instruction and support for students to be successful in multiple content areas, including academic subjects, career exploration, life and social skills. Supplemental sessions for areas such as arts, physical education and development of occupational skills outside the self-contained program may be included.

23321 Individualized Program–Support Services

Courses in this classification are typically highly structured, self-contained, individualized training programs in areas such as social, behavioral, occupational and person care skill development. Programs are designed to meet the individual needs, abilities and IEP goals of the student.

23329 Particular Programs–Support Services

Courses in this classification address particular programs of an integrated or individualized nature not described in course classifications previously listed.

23330 Credit Recovery–Support Services

Courses in this classification are designed to enable students to recover required or elective credits in the support services curriculum area to meet IEP and/or graduation requirements.

23331 Elective Credit–Support Services

Courses in this classification address general or particular electives not previously listed to enable students to meet IEP goals and/or graduation requirements.

23332 Homeroom/Advisory–Support Services

Courses in this classification vary widely in terms of content. They may provide opportunities to build small peer communities or focus on activities or experiences such as reading a common text or engaging in service projects.

23390 Work Experience Classroom–Support Services

Courses in this classification are the classroom portion of Career and Technical Education (CTE) work experience programs and typically involve further study of the field and discussion of experiences in the workplace. (For on-the-job portion, see 23298 Work-Based Learning–Support Services below.) Use this course classification for age 14- and 15-year old student WE/CEP programs and 16- to 20+-year old student programs.

23395 Work Release–Support Services

Courses in this classification provide students with release time to work for pay. Typically there is no classroom component to the work experience nor is there a supervision relationship between the school and the worksite. Students are simply released to work.

23396 Seminar/Project–Support Services

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest. They often include postsecondary education and/or career exploration and planning. Students typically design a project based on their area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research and presentation skills as well as problem-solving and critical thinking. Courses may be offered as support for IEP goals and/or graduation requirements.

23397 Independent Study–Support Services

Courses in this classification are often conducted with instructors as mentors and allow students to explore topics of interest. These courses serve as an opportunity for students to expand expertise, develop skills or explore a topic in detail.

23398 Work-Based Learning–Support Services

Courses in this classification are the on-the-job portion of Career and Technical Education (CTE) programs and provide students with work experience in the local school/district environment or the larger community. Goals are typically set by students, case manager/school coordinator and employer (although students are not necessarily paid). Students are supervised and evaluated by a school coordinator and the employer. These courses have a classroom component (see 23293 Work Experience Classroom–Support Services above). Use this course classification for both age 14- and 15-year old students in WE/CEP programs and 16- to 20+-year old student programs.

23399 Support Services–Other

(Provide local course description.)

F. English Language Development

23401 ESL Communication

Courses in this classification typically introduce or develop English language usage. Introductory level courses often begin with listening and speaking activities and introduce reading and writing as student proficiency allows. The focus of all levels of these courses is on communication skills essential for success in higher level ESL and/or subject area courses. Emphasis of instruction varies based on student language proficiency. Orientation to customs and cultures of diverse populations in the United States may be included.

23402 ESL Content Area Orientation

Courses in this classification introduce English language learners to core subject areas of the high school curriculum, such as math, science, social studies, health and art. Students acquire language skills in speaking, listening, reading and writing by studying basic concepts in the subject areas.

23403 ESL English/Language Arts–Comprehensive

Courses in this classification support development of language arts skills proficiency. Typically, students read a variety of fiction and non-fiction selections, write a variety of compositions and continue to develop listening and speaking skills. Emphasis of instruction varies based on student language proficiency and may include preparing students for reading and writing proficiency assessments.

23404 ESL Listening and Speaking

Courses in this classification develop English language skills with extensive listening and speaking activities. Emphasis of instruction varies based student language proficiency. Students generally initiate, respond to and sustain verbal interactions on a variety of topics before progressing to more detailed oral information with fewer contextual clues on unfamiliar topics. These courses may include development of reading and writing skills.

23405 ESL Reading/Literature

Courses in this classification develop English language proficiency while focusing on reading/literature, which may include vocabulary building, comprehension, and literary concepts such as theme, character, setting, conflict and figurative language. Emphasis of instruction varies based on student language proficiency and may include preparing students for reading proficiency assessments. Content typically includes a variety of fiction and non-fiction texts and may include development of writing and speaking skills.

23406 ESL Writing/Composition

Courses in this classification develop English language proficiency while focusing on writing skills, including composition skills such as paragraph development, sentence construction, mechanics, grammar and use of the writing process. Writing assignments may include, but are not limited to, personal essay and response to literature and media. Emphasis of instruction varies based on student language proficiency and may include preparing students for writing proficiency assessments.

23407 ESL Reading and Writing

Courses in this classification focus on developing English language proficiency in both reading and writing as described in courses listed above. Emphasis of instruction varies based on student language proficiency and may include preparing student for reading and writing proficiency assessment.

23408 ESL Vocabulary/Language Skills

Courses in this classification focus on developing vocabulary and language skills to enhance communication competencies in speaking, listening, reading and/or writing. Instruction may include, but is not limited to, building grammar, mechanical and usage skills in verbal and written contexts. Orientation to customs and cultures of diverse populations in the United States may be included.

23421 ESL Math

Courses in this classification typically introduce or develop mathematical skills, vocabulary and concepts while expanding language skills through a variety of mathematical exercises. Topics of study may include, but are not limited to, computation, measurement, calculator skills, estimation and reading/interpreting graphs, or advanced areas of study such as pre-algebra/algebra and geometry concepts. Some courses focus on one or more math topics of study rather than provide a general overview of mathematics.

23422 ESL Computer/Technology Skills

Courses in this classification typically introduce or develop computer/technology use skills. Areas of study may include computers and peripheral devices; the language, functions and uses of computers and technology; and computer hardware and software. Courses typically introduce or develop keyboarding skills, machine operation and the use of software programs.

23430 ESL Science

Courses in this classification typically introduce or develop scientific thinking, vocabulary and concepts while expanding language skills through a variety of scientific exercises and activities. Topics of study may include, but are not limited to, basic biological concepts, explorations in forensic science, environmental science, biochemistry and the physical sciences. Some courses focus on one or more science topics of study rather than provide a general overview of science.

23440 ESL Economics

Courses in this classification typically introduce or develop economic thinking, vocabulary and concepts while expanding language skills through a variety of economic-related experiences and activities. Topics of study may include, but are not limited to, economic systems, economic growth and development, the functions of consumers and producers, resource allocation, and the role of government in different economies.

23441 ESL Geography

Courses in this classification typically introduce and develop geographic thinking, vocabulary and concepts while expanding language skills through a variety of geography-related experiences and activities. Topics of study may include, but are not limited to, the ways humans understand, use and alter the earth's surface; spatial concepts and landscape analysis; and the methods and tools geographers use in their practice.

23442 ESL History

Courses in this classification typically introduce and develop historical thinking, vocabulary and concepts while expanding language skills through a variety of history-related experiences and activities. Topics of study may include, but are not limited to, the political, social, religious, cultural, military and scientific developments of human society. Courses may provide an overview or focus on particular times, people and places.

23443 ESL Civics/Government

Courses in this classification typically introduce and develop the thinking, vocabulary and concepts of citizenship while expanding language skills through a variety of experiences and activities. Topics of study may include, but are not limited to, the U.S. constitution and its amendments, structures of the government and political systems, how citizens interact with the government and the rights and responsibilities of citizenship.

23450 ESL Health

Courses in this classification typically introduce or develop health concepts and vocabulary while expanding language skills through a variety of health-related experiences and activities. Topics of study may include, but are not limited to, nutrition, stress management, drug/alcohol abuse prevention, disease prevention and first aid. Courses may focus on topics in health rather than provide a general overview of health-related issues.

23460 ESL Art

Courses in this classification typically introduce or develop visual art or music concepts, principles and vocabulary while expanding language skills through a variety of visual art or music-related experiences and activities. Areas of study may include, but are not limited to, visual art or music history, styles and periods; visual art or music making; and visual art or music analysis and criticism.

23470 ESL Study/Support

Courses in this classification support student success in mainstream classes such as math, science, and social studies. They may also support continued development of language skills.

23471 ESL State Assessment Support

Courses in this classification provide practice for students who need support in preparing for state assessments in core content areas, typically including reading, writing, math and science.

23472 ESL Job Skills

Courses in this classification explore career options and build job-seeking skills. Topics may include analyzing personal interests, skills and aptitudes as well as finding and keeping a job. Activities, such as writing resumes, filling out job applications, interviewing and on-the-job practices are often addressed. Courses may include job skills, such as keyboarding, phone etiquette, customer service and related skills.

23473 ESL Peer Tutor Support

Courses in this classification enable ELL students to receive support with language issues and classroom assignments from volunteer peer tutors.

23480 ESL Seminar/Project

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest. They often include postsecondary education and/or career exploration and planning. Students typically design and implement a project and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation, and presentation skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other project required for graduation.

23481 ESL Independent Study

Courses in this classification are often conducted with instructors as mentors or as an apprenticeship that allows students to explore particular topics of interest within a particular field. These courses may serve as an opportunity for students to expand expertise, develop skills or explore a topic in detail.

23499 ESL–Other

(Provide local course description.)

G. All Others

23500 Kindergarten

Courses in this classification involve content that is not differentiated by subject area. These courses focus on content that is grade-specific and cover various subjects throughout the day, rather than a single subject-specific content area. Specific course content depends upon state standards for kindergarten.

23501 Grade 1

Courses in this classification involve content that is not differentiated by subject area. These courses focus on content that is grade-specific and cover various subjects throughout the day, rather than a single subject-specific content area. Specific course content depends upon state standards for grade one.

23502 Grade 2

Courses in this classification involve content that is not differentiated by subject area. These courses focus on content that is grade-specific and cover various subjects throughout the day, rather than a single subject-specific content area. Specific course content depends upon state standards for grade two.

23503 Grade 3

Courses in this classification involve content that is not differentiated by subject area. These courses focus on content that is grade-specific and cover various subjects throughout the day, rather than a single subject-specific content area. Specific course content depends upon state standards for grade three.

23504 Grade 4

Courses in this classification involve content that is not differentiated by subject area. These courses focus on content that is grade-specific and cover various subjects throughout the day, rather than a single subject-specific content area. Specific course content depends upon state standards for grade four.

23505 Grade 5

Courses in this classification involve content that is not differentiated by subject area. These courses focus on content that is grade-specific and cover various subjects throughout the day, rather than a single subject-specific content area. Specific course content depends upon state standards for grade five.

23506 Grade 6

Courses in this classification involve content that is not differentiated by subject area. These courses focus on content that is grade-specific and cover various subjects throughout the day, rather than a single subject-specific content area. Specific course content depends upon state standards for grade six.

23507 Grade 7

Courses in this classification involve content that is not differentiated by subject area. These courses focus on content that is grade-specific and cover various subjects throughout the day, rather than a single subject-specific content area. Specific course content depends upon state standards for grade seven.

23508 Grade 8

Courses in this classification involve content that is not differentiated by subject area. These courses focus on content that is grade-specific and cover various subjects throughout the day, rather than a single subject-specific content area. Specific course content depends upon state standards for grade eight.

23509 Multi-Grade Levels

Courses in this classification includes courses that are not grade-differentiated and should be used when the local school does not differentiate courses by either grade level or subject area and multiple content areas are taught to multiple grade levels. Specific course content depends upon the state standards for the content areas and grade levels included.

23990 Diversified Subject Areas–Work Experience Classroom

Courses in this classification accompany Career and Technical Education (CTE) work experience programs (for apprenticeships or work-based learning see *23992 Diversified Subject Areas–Apprenticeship* and *23998 Diversified Subject Areas–Work-Based Learning* below). Typically, they involve further study of the diversified fields represented and discussion of experiences in the various workplaces.

23991 Disadvantaged Youth–Work Experience Classroom

Courses in this classification accompany Career and Technical Education (CTE) disadvantaged youth, work-based learning programs (see *23993 Disadvantaged Youth–Work-Based Learning* below.) Typically, they involve further study of the occupational fields represented and discussion of experience in the various workplaces. Use this classification for both 14- and 15-year old student programs and 16- to 20+-year old student programs.

23992 Diversified Subject Areas–Apprenticeship

Courses in this classification are part of Career and Technical Education (CTE) work experience programs that provide students with supervised workplace training in a variety of areas. Goals are typically set cooperatively by the student, school coordinator and mentor/employer (although students are not necessarily paid). Student work is evaluated by the school coordinator and mentor/employer. These courses are accompanied by a classroom component (see *23990 Diversified Subject Areas–Work Experience Classroom* above).

23993 Disadvantaged Youth–Work-Based Learning

Courses in this classification are part of Career and Technical Education (CTE) work experience programs that provide disadvantaged students with work experience in a variety of fields. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). Students are supervised and evaluated by a school coordinator and the employer. These courses have a classroom component (See *23991 Disadvantaged Youth–Work Experience Classroom* above). Use this course classification for both 14- and 15-year old student programs and 16- to 20+-year old student programs.

23994 Credit Recovery–Nonspecific Subject Area

Courses in this classification are designed to enable students to recover credits in curriculum areas not previously specified. English/language arts, math, science, social studies and health/physical education list specific credit recovery course classifications in those subject areas. Please use the subject-specific classifications for those particular curriculum areas.

23995 Homebound

Courses in this classification are offered to students unable to physically attend school. This is typically short-term instruction by a licensed teacher to enable a student to maintain class standing and return to the regular classroom when able.

23996 Work Release

Courses provide students with release time to work for pay. There is no classroom component to the work experience nor is there a supervision relationship between the school and the worksite. Students are simply released to work.

23997 Nonspecific Subject Areas–Independent Study

Courses in this classification, often conducted with instructors or career professionals as mentors, enable students to explore topics of interest. These courses may provide students with an opportunity to expand their expertise in a particular area, explore a topic in detail, or develop advanced skills.

23998 Diversified Subject Areas–Work-Based Learning

Courses in this classification are part of Career and Technical Education (CTE) work experience programs that provide students with work experience in a variety of fields. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). Students are supervised and evaluated by a school coordinator and the employer. These courses have a classroom component (see 23990 Diversified Subject Areas–Work Experience Classroom above).

23999 Nonspecific Subject Area–Other

(Provide local course description.)

Subject Area 24: World Languages and Literature

I. Grade-level information

Minnesota Common Course Catalogue (MCCC) classifications are written to describe all grades in the K-12 grade-level span, unless otherwise indicated in the title or description. Classify local courses according to these multi-grade classifications even if local courses have grade restrictions.

II. Directions for making accurate classifications

NOTE: Always see complete descriptions for most accurate classification.

1. Local IB or AP preparation courses should not be classified as the official IB or AP classifications listed in the MCCC. They should be classified under the MCCC course classification that best describes the content and course level should be documented “E” for enriched or honors.
2. Hebrew is listed in **Category L. Semitic and Near/Middle Eastern**.

III. World Languages and Literature course categories

Category	Code Range
A. Introduction to World	24(001)–24(040)
B. Romance	24(050)–24(199)
C. German	24(250)–24(268)
D. Celtic	24(301)–24(301)
E. Greek	24(325)–24(325)
F. Classical	24(340)–24(389)
G. East Asian	24(400)–24(467)
H. Southeast Asian	24(550)–24(599)
I. Balto-Slavic	24(650)–24(699)
L. Semitic and Near/Middle Eastern	24(700)–24(799)
M. Non-Semitic African Languages	24(800)–24(849)
N. American Sign	24(850)–24(899)
O. Native American	24(900)–24(934)
R. General	24(995)–24(999)

A. Introduction to World Languages and Cultures

24039 World Language–General

Courses in this classification involve content that is not grade differentiated and may apply to a range of consecutive grades (e.g., "by third grade, students should know and be able to do..."). These courses include content that may be applicable to states or localities that do not employ grade-level content standards. [These courses provide broad content that is not organized as described elsewhere (i.e., World Language, early childhood education through grade eight).]

24040 Exploration of Multiple World Languages

Designed to introduce students to two or more languages in a single course of study, courses in this classification provide students with general information about the spoken and written languages and introduce the relationships among the products, practices, and perspectives of the associated cultures.

24041 Braille

Designed to prepare students to read Braille. These courses may include varying formats of Braille and are available to vision-impaired and sighted students.

24042 IB Language B–English

Courses in this classification prepare students to take the International Baccalaureate Language B exams. These courses focus on improving students' accuracy and fluency in oral and written communication (usually in the students' "second" language).

24043 IB Language Ab Initio–English

Courses in this classification prepare students to take the International Baccalaureate exam. These courses focus on developing the linguistic abilities of students with little or no experience with the language of study. Course content includes the study of individuals and society, leisure and work, and urban and rural environments. These courses also provide students with the opportunity to practice and explore this language.

B. Romance Languages

24050 Spanish for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in Spanish and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices and perspectives of Spanish-speaking cultures.

24051 Spanish Immersion (prior to secondary)

Courses in this classification engage students in developmentally appropriate activities to acquire literacy and oracy in Spanish and grade-specific content using Spanish as the language of instruction. Spanish Immersion courses prepare students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information about standards-based academic content and incorporate the relationships among the products, practices and perspectives of Spanish-speaking cultures.

24052 Spanish I

Designed to introduce students to Spanish language and culture, courses in this classification prepare students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices and perspectives of Spanish-speaking cultures.

24053 Spanish II

Courses in this classifications build upon skills developed in Spanish I, preparing students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Spanish II courses introduce the relationships among the products, practices and perspectives of Spanish-speaking cultures.

24054 Spanish III

Courses in this classification prepare students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices and perspectives of Spanish-speaking countries and cultures.

24055 Spanish IV

Courses in this classification prepare students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Spanish IV courses promote students' understanding of the relationships among the products, practices and perspectives of Spanish-speaking countries and cultures.

24056 Spanish V

Courses in this classification prepare students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. Spanish V courses promote students' understanding of the relationships among the products, practices, and perspectives of Spanish-speaking countries and cultures.

24057 Spanish for Native Speakers

Courses in this classification prepare native and heritage speakers to communicate in Spanish in all modes. These courses reinforce and expand students' skills to interpret (read, listen, view) and present (speak, write) information at the same level as they exchange (speak and listen; read and write) information, concepts and ideas on a variety of topics. Spanish for Native Speakers courses advance students' understanding of the relationships among the products, practices and perspectives of the cultures included in the Spanish-speaking world.

24058 Spanish Field Experience

Courses in this classification place students in environments in which they interact with native Spanish speakers, typically in settings where Spanish is the main language spoken. These courses enable students to strengthen their skills in exchanging (speaking/listening and writing/reading), interpreting (reading, listening, and viewing), and presenting information and their ability to interact in culturally appropriate ways.

24060 Spanish Literature

Courses in this classification prepare students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, opinions and ideas drawn from literature written in Spanish. Emphasis is typically placed on critical and analytical reading and writing, understanding the integration of Hispanic cultures into literature, and exploring interdisciplinary connections.

24061 Particular Topics in Spanish

Courses in this classification examine particular topics focused on Spanish language or culture, such as film, music, application(s) to career/technical fields, or a specific dialect, other than those already described elsewhere in this classification system.

24062 IB Language A: Literature–Spanish

Courses in this classification prepare students to take the International Baccalaureate Language A: Literature exams. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses and critiques of this literature, and other oral and written assignments. The course is designed for students highly competent in using Spanish in an academic context and is intended for students with native or near-native fluency in the language.

24063 IB Language B–Spanish

Courses in this classification prepare students to take the International Baccalaureate Language B exams. These courses focus on improving students' accuracy and fluency in oral and written communication (usually in the students' "second" language).

24064 AP Spanish Language and Culture

Courses in this classification are designed by the College Board to parallel third-year college-level courses in Spanish language. AP Spanish Language and Culture courses build upon prior knowledge and develop students' ability to express ideas, exchange opinions and present information in Spanish, both orally and in writing. These courses also help students understand and interpret written and spoken Spanish. In addition, students explore the culture of Spanish-speaking people in historical and contemporary contexts.

24065 AP Spanish Literature and Culture

Courses in this classification are designed by the College Board to parallel college-level Introduction to Hispanic Literature courses, AP Spanish Literature and Culture courses cover representative works from the literatures of Spain and Spanish America, encompassing all genres. The courses build students' Spanish language proficiency, with special attention given to critical opinions and literary analyses in oral and written Spanish. Students are encouraged to relate the texts to their cultural contexts.

24066 IB Language B (Spanish), Middle Years Program

Courses in this classification enable students to make progress toward competence in modern Spanish; these courses also encourage respect for and understanding of other languages and cultures.

24067 IB Language A: Language and Literature–Spanish

Courses in this classification prepare students to take the International Baccalaureate Language A: Language and Literature exams. Course content includes in-depth study of composition for purpose and audience, forms of mass communication and the media, and the context and elements of literature. The course includes oral and written assignments and is designed for students highly competent in using Spanish in an academic context.

24068 IB Language Ab Initio–Spanish

Courses in this classification prepare students to take the International Baccalaureate exam. These courses focus on developing the linguistic abilities of students with little or no experience with the language of study. Course content includes the study of individuals and society, leisure and work, and urban and rural environments. These courses also provide students with the opportunity to practice and explore this language.

24099 Spanish Language–Other

(Provide local course description)

24100 French for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in French and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in French by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices and perspectives of French-speaking cultures.

24101 French Immersion (prior to secondary)

Courses in this classification engage students in developmentally appropriate activities to acquire literacy and oracy in French and grade-specific content using French as the language of instruction. French Immersion courses prepare students to communicate authentically in French by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information about standards-based academic content and incorporate the relationships among the products, practices and perspectives of French-speaking cultures.

24102 French I

Designed to introduce students to French language and culture, courses in this classification prepare students to communicate authentically in French by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices, and perspectives of French-speaking cultures.

24103 French II

Courses in this classification build upon skills developed in French I, preparing students to communicate authentically in French by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. French II courses introduce the relationships among the products, practices, and perspectives of French-speaking cultures.

24104 French III

Courses in this classification prepare students to communicate authentically in French by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices and perspectives of French-speaking countries and cultures.

24105 French IV

Courses in this classification prepare students to communicate authentically in French by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. French IV courses promote students' understanding of the relationships among the products, practices and perspectives of French-speaking countries and cultures.

24106 French V

Courses in this classification prepare students to communicate authentically in French by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. French V courses promote students' understanding of the relationships among the products, practices and perspectives of French-speaking countries and cultures.

24107 French for Native Speakers

Courses in this classification prepare native and heritage speakers to communicate in French in all modes. These courses reinforce and expand students' skills to interpret (read, listen, view) and present (speak, write) information at the same level as they exchange (speak and listen; read and write) information, concepts and ideas on a variety of topics. French for Native Speakers courses advance students' understanding of the relationships among the products, practices and perspectives of the cultures included in the French-speaking world.

24108 French Field Experience

Courses in this classification place students in environments in which they interact with native French speakers, typically in settings where French is the main language spoken. These courses enable students to strengthen their skills in exchanging (speaking/listening and writing/reading), interpreting (reading, listening, and viewing), and presenting information and their ability to interact in culturally appropriate ways.

24110 French Literature

Courses in this classification prepare students to communicate authentically in French by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, opinions, and ideas drawn from literature written in French. Emphasis is typically placed on critical and analytical reading and writing, understanding the integration of French cultures into literature, and exploring interdisciplinary connections.

24111 Particular Topics in French

Courses in this classification examine particular topics focused on French language or culture, such as film, music, application(s) to career/technical fields, or a specific dialect, other than those already described elsewhere in this classification system.

24112 IB Language A: Literature-French

Courses in this classification prepare students to take the International Baccalaureate Language A: Literature exams. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses and critiques of this literature, and other oral and written assignments. The course is designed for students highly competent in using French in an academic context and is intended for students with native or near-native fluency in the language.

24113 IB Language B–French

Courses in this classification prepare students to take the International Baccalaureate Language B exams. These courses focus on improving students' accuracy and fluency in oral and written communication (usually in the students' "second" language).

24114 AP French Language and Culture

Designed by the College Board to parallel third-year college-level courses in French language, courses in this classification build upon prior knowledge and develop students' ability to express ideas, exchange opinions, and present information in French, both orally and in writing. These courses also help students understand and interpret written and spoken French. In addition, students explore the culture of French-speaking people in historical and contemporary contexts.

24116 IB Language B (French), Middle Years Program

Courses in this classification enable students to make progress toward competence in modern French and encourage respect for and understanding of other languages and cultures.

24117 IB Language A: Language and Literature–French

Courses in this classification prepare students to take the International Baccalaureate Language A: Language and Literature exams. Course content includes in-depth study of composition for purpose and audience, forms of mass communication and the media, and the context and elements of literature. The course includes oral and written assignments and is designed for students highly competent in using French in an academic context.

24118 IB Language Ab Initio–French

Courses in this classification prepare students to take the International Baccalaureate exam. These courses focus on developing the linguistic abilities of students with little or no experience with the language of study. Course content includes the study of individuals and society, leisure and work, and urban and rural environments. These courses also provide students with the opportunity to practice and explore this language.

24149 French Language–Other

(Provide local course description)

24199 Romance/Italic Language–Other

(Provide local course description)

C. German Languages

24250 German for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in German and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in German by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices and perspectives of German-speaking cultures.

24251 German Immersion (prior to secondary)

Courses in this classification engage students in developmentally appropriate activities to acquire literacy and oracy in German and grade-specific content using German as the language of instruction. German Immersion courses prepare students to communicate authentically in German by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information about standards-based academic content and incorporate the relationships among the products, practices and perspectives of German-speaking cultures.

24252 German I

Designed to introduce students to German language and culture, courses in this classification prepare students to communicate authentically in German by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices and perspectives of German-speaking cultures.

24253 German II

Courses in this classification build upon skills developed in German I, preparing students to communicate authentically in German by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. German II courses introduce the relationships among the products, practices and perspectives of German-speaking cultures.

24254 German III

Courses in this classification prepare students to communicate authentically in German by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices and perspectives of German-speaking countries and cultures.

24255 German IV

Courses in this classification prepare students to communicate authentically in German by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. German IV courses promote students' understanding of the relationships among the products, practices and perspectives of German-speaking countries and cultures.

24256 German V

Courses in this classification prepare students to communicate authentically in German by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. German V courses promote students' understanding of the relationships among the products, practices and perspectives of German-speaking countries and cultures.

24257 German for Native Speakers

Courses in this classification prepare native and heritage speakers to communicate in German in all modes. These courses reinforce and expand students' skills to interpret (read, listen, view) and present (speak, write) information at the same level as they exchange (speak and listen; read and write) information, concepts and ideas on a variety of topics. German for Native Speakers courses advance students' understanding of the relationships among the products, practices and perspectives of the cultures included in the German-speaking world.

24258 German Field Experience

Courses in this classification place students in environments in which they interact with native German speakers, typically in settings where German is the main language spoken. These courses enable students to strengthen their skills in exchanging (speaking/listening and writing/reading), interpreting (reading, listening, and viewing), and presenting information and their ability to interact in culturally appropriate ways.

24260 German Literature

Courses in this classification prepare students to communicate authentically in German by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, opinions and ideas drawn from literature written in German. Emphasis is typically placed on critical and analytical reading and writing, understanding the integration of German cultures into literature, and exploring interdisciplinary connections.

24261 Particular Topics in German

Courses in this classification examine particular topics focused on German language or culture, such as film, music, application(s) to career/technical fields, or a specific dialect, other than those already described elsewhere in this classification system.

24262 IB Language A: Literature–German

Courses in this classification prepare students to take the International Baccalaureate Language A: Literature exams. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses and critiques of this literature, and other oral and written assignments. The course is designed for students highly competent in using German in an academic context and is intended for students with native or near-native fluency in the language.

24263 IB Language B–German

Courses in this classification prepare students to take the International Baccalaureate Language B exams. These courses focus on improving students' accuracy and fluency in oral and written communication (usually in the students' "second" language).

24264 AP German Language and Culture

Designed by the College Board to parallel third-year college-level courses in German language, Courses in this classification build upon prior knowledge and develop students' ability to express ideas, exchange opinions, and present information in German, both orally and in writing. These courses also help students understand and interpret written and spoken German. In addition, students explore the culture of German-speaking people in historical and contemporary contexts.

24266 IB Language B (German), Middle Years Program

Courses in this classification enable students to make progress toward competence in modern German and encourage respect for and understanding of other languages and cultures.

24267 IB Language A: Language and Literature–German

Courses in this classification prepare students to take the International Baccalaureate Language A: Language and Literature exams. Course content includes in-depth study of composition for purpose and audience, forms of mass communication and the media, and the context and elements of literature. The course includes oral and written assignments and is designed for students highly competent in using German in an academic context.

24268 IB Language Ab Initio–German

Courses in this classification prepare students to take the International Baccalaureate exam. These courses focus on developing the linguistic abilities of students with little or no experience with the language of study. Course content includes the study of individuals and society, leisure and work, and urban and rural environments. These courses also provide students with the opportunity to practice and explore this language.

24299 German Language–Other

(Provide local course description.)

D. Celtic Language

24301 Celtic Language—Other

(Provide local course description.)

E. Greek Language

24325 Greek Language—Other

(Provide local course description.)

F. Classical Language

24340 Latin for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in Latin and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in Latin by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices and perspectives of Latin-speaking cultures.

24342 Latin I

Designed to introduce students to Latin language and culture, courses in this classification prepare students to communicate authentically in Latin by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices and perspectives of Latin-speaking cultures.

24343 Latin II

Courses in this classification build upon skills developed in Latin I, preparing students to communicate authentically in Latin by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Latin II courses introduce the relationships among the products, practices, and perspectives of Latin-speaking cultures.

24344 Latin III

Courses in this classification prepare students to communicate authentically in Latin by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices and perspectives of Latin-speaking countries and cultures.

24345 Latin IV

Courses in this classification prepare students to communicate authentically in Latin by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Latin IV courses promote students' understanding of the relationships among the products, practices and perspectives of Latin-speaking countries and cultures.

24346 Latin V

Courses in this classification prepare students to communicate authentically in Latin by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Latin V courses promote students' understanding of the relationships among the products, practices and perspectives of Latin-speaking countries and cultures.

24351 Particular Topics in Latin

Courses in this classification examine particular topics focused on Latin language or culture, such as film, music, application(s) to career/technical fields, or a specific dialect, other than those already described elsewhere in this classification system.

24352 IB Classical Languages–Latin

Courses in this classification seek to strike a balance between the study of the classic Latin language itself (structure, meaning, and formulation) and the civilization it reflects (particularly its culture, philosophies, and institutions). Course content enables students to understand, translate, and appreciate a classical Latin text; relate literature to its historical or social background; recognize current relevance of ancient literature; and apply acquired knowledge to other subjects.

24355 AP Latin (Virgil, Catullus and Horace)

Designed to parallel advanced college-level courses in Latin studies, courses in this classification build upon and increase knowledge of Latin, enabling students to read the language with comprehension, to accurately translate Latin into English, and to appreciate the stylistic literary techniques used by the authors. AP Latin courses also include study of the political, social and cultural background of the literary works and their authors, as well as their influence on later literature.

24369 Latin Language–Other

(Provide local course description.)

24370 Classical Greek for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in Classical Greek and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in Classical Greek by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices and perspectives of Classical Greek-speaking cultures.

24372 Classical Greek I

Designed to introduce students to Classical Greek language and culture, courses in this classification courses prepare students to communicate authentically in Classical Greek by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices and perspectives of Classical Greek-speaking cultures.

24373 Classical Greek II

Courses in this classification build upon skills developed in Classical Greek I, preparing students to communicate authentically in Classical Greek by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Classical Greek II courses introduce the relationships among the products, practices and perspectives of Classical Greek-speaking cultures.

24374 Classical Greek III

Courses in this classification prepare students to communicate authentically in Classical Greek by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices and perspectives of Classical Greek-speaking countries and cultures.

24375 Classical Greek IV

Courses in this classification prepare students to communicate authentically in Classical Greek by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Classical Greek IV courses promote students' understanding of the relationships among the products, practices and perspectives of Classical Greek-speaking countries and cultures.

24376 Classical Greek V

Courses in this classification prepare students to communicate authentically in Classical Greek by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Classical Greek V courses promote students' understanding of the relationships among the products, practices and perspectives of Classical Greek-speaking countries and cultures.

24381 Particular Topics in Classical Greek

Courses in this classification examine particular topics focused on Classical Greek language or culture, such as drama, music, application(s) to career/technical fields, or a specific dialect, other than those already described elsewhere in this classification system.

24382 IB Classical Languages–Greek

Courses in this classification seek to strike a balance between the study of the classic Greek language itself (structure, meaning, and formulation) and the civilization it reflects (particularly its culture, philosophies, and institutions). Course content enables students to understand, translate and appreciate a classical Greek text; relate literature to its historical or social background; recognize current relevance of ancient literature; and apply acquired knowledge to other subjects.

24383 Classical Greek Languages–Other

(Provide local course description.)

24389 Classical Language–Other

(Provide local course description.)

G. East Asian Languages

24400 Chinese for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in Chinese and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in Chinese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices and perspectives of Chinese-speaking cultures.

24401 Chinese Immersion (prior to secondary)

Courses in this classification engage students in developmentally appropriate activities to acquire literacy and oracy in Chinese and grade-specific content using Chinese as the language of instruction. Chinese Immersion courses prepare students to communicate authentically in Chinese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information about standards-based academic content and incorporate the relationships among the products, practices and perspectives of Chinese-speaking cultures.

24402 Chinese I

Designed to introduce students to Chinese language and culture, courses in this classification prepare students to communicate authentically in Chinese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices and perspectives of Chinese-speaking cultures.

24403 Chinese II

Courses in this classification build upon skills developed in Chinese I, preparing students to communicate authentically in Chinese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Chinese II courses introduce the relationships among the products, practices and perspectives of Chinese-speaking cultures.

24404 Chinese III

Courses in this classification prepare students to communicate authentically in Chinese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices and perspectives of Chinese-speaking countries and cultures.

24405 Chinese IV

Courses in this classification prepare students to communicate authentically in Chinese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Chinese IV courses promote students' understanding of the relationships among the products, practices and perspectives of Chinese-speaking countries and cultures.

24406 Chinese V

Courses in this classification prepare students to communicate authentically in Chinese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Chinese V courses promote students' understanding of the relationships among the products, practices and perspectives of Chinese-speaking countries and cultures.

24407 Chinese for Native Speakers

Courses in this classification prepare native and heritage speakers to communicate in Chinese in all modes. These courses reinforce and expand students' skills to interpret (read, listen, view) and present (speak, write) information at the same level as they exchange (speak and listen; read and write) information, concepts and ideas on a variety of topics. Chinese for Native Speakers courses advance students' understanding of the relationships among the products, practices and perspectives of the cultures included in the Chinese-speaking world.

24408 Chinese Field Experience

Courses in this classification place students in environments in which they interact with native Chinese speakers, typically in settings where Chinese is the main language spoken. These courses enable students to strengthen their skills in exchanging (speaking/listening and writing/reading), interpreting (reading, listening, and viewing), and presenting information and their ability to interact in culturally appropriate ways.

24410 Chinese Literature

Courses in this classification prepare students to communicate authentically in Chinese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, opinions and ideas drawn from literature written in Chinese. Emphasis is typically placed on critical and analytical reading and writing, understanding the integration of Chinese cultures into literature, and exploring interdisciplinary connections.

24411 Particular Topics in Chinese

Courses in this classification examine particular topics focused on Chinese language or culture, such as film, music, application(s) to career/technical fields, or a specific dialect, other than those already described elsewhere in this classification system.

24412 IB Language A: Literature–Chinese

Courses in this classification prepare students to take the International Baccalaureate Language A: Literature exams. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses and critiques of this literature, and other oral and written assignments. The course is designed for students highly competent in using Chinese in an academic context and is intended for students with native or near-native fluency in the language.

24413 IB Language B–Chinese

Courses in this classification prepare students to take the International Baccalaureate Language B exams. These courses focus on improving students' accuracy and fluency in oral and written communication (usually in the students' "second" language).

24414 AP Chinese Language and Culture

Designed by the College Board to parallel fourth semester college-level courses in Mandarin Chinese language, courses in this classification build upon prior knowledge and develop students' ability to express ideas, exchange opinions, and present information in Chinese, both orally and in writing. These courses also help students understand and interpret written and spoken Chinese. In addition, students explore the culture of Chinese-speaking people in historical and contemporary contexts.

24416 IB Language B (Chinese), Middle Years Program

Courses in this classification enable students to make progress toward competence in modern Chinese and encourage respect for and understanding of other languages and cultures.

24417 IB Language A: Language and Literature–Chinese

Courses in this classification courses prepare students to take the International Baccalaureate Language A: Language and Literature exams. Course content includes in-depth study of composition for purpose and audience, forms of mass communication and the media, and the context and elements of literature. The course includes oral and written assignments and is designed for students highly competent in using Chinese in an academic context.

24418 IB Language Ab Initio–Chinese

Courses in this classification prepare students to take the International Baccalaureate exam. These courses focus on developing the linguistic abilities of students with little or no experience with the language of study. Course content includes the study of individuals and society, leisure and work, and urban and rural environments. These courses also provide students with the opportunity to practice and explore this language.

24449 IB Chinese Language–Other

(Provide local course description.)

24450 Japanese for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in Japanese and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in Japanese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices and perspectives of Japanese-speaking cultures.

24451 Japanese Immersion (prior to secondary)

Courses in this classification engage students in developmentally appropriate activities to acquire literacy and oracy in Japanese and grade-specific content using Japanese as the language of instruction. Japanese Immersion courses prepare students to communicate authentically in Japanese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information about standards-based academic content and incorporate the relationships among the products, practices and perspectives of Japanese-speaking cultures.

24452 Japanese I

Designed to introduce students to Japanese language and culture, courses in this classification prepare students to communicate authentically in Japanese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices and perspectives of Japanese-speaking cultures.

24453 Japanese II

Courses in this classification build upon skills developed in Japanese I, preparing students to communicate authentically in Japanese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Japanese II courses introduce the relationships among the products, practices and perspectives of Japanese-speaking cultures.

24454 Japanese III

Courses in this classification prepare students to communicate authentically in Japanese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices and perspectives of Japanese-speaking countries and cultures.

24455 Japanese IV

Courses in this classification prepare students to communicate authentically in Japanese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Japanese IV courses promote students' understanding of the relationships among the products, practices and perspectives of Japanese-speaking countries and cultures.

24456 Japanese V

Courses in this classification prepare students to communicate authentically in Japanese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Japanese V courses promote students' understanding of the relationships among the products, practices and perspectives of Japanese-speaking countries and cultures.

24457 Japanese for Native Speakers

Courses in this classification prepare native and heritage speakers to communicate in Japanese in all modes. These courses reinforce and expand students' skills to interpret (read, listen, view) and present (speak, write) information at the same level as they exchange (speak and listen; read and write) information, concepts, and ideas on a variety of topics. Japanese for Native Speakers courses advance students' understanding of the relationships among the products, practices, and perspectives of the cultures included in the Japanese-speaking world.

24458 Japanese Field Experience

Courses in this classification place students in environments in which they interact with native Japanese speakers, typically in settings where Japanese is the main language spoken. These courses enable students to strengthen their skills in exchanging (speaking/listening and writing/reading), interpreting (reading, listening, and viewing), and presenting information and their ability to interact in culturally appropriate ways.

24460 Japanese Literature

Courses in this classification prepare students to communicate authentically in Japanese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, opinions and ideas drawn from literature written in Japanese. Emphasis is typically placed on critical and analytical reading and writing, understanding the integration of Japanese cultures into literature, and exploring interdisciplinary connections.

24461 Particular Topics in Japanese

Courses in this classification examine particular topics focused on Japanese language or culture, such as film, music, application(s) to career/technical fields, or a specific dialect, other than those already described. Elsewhere in this classification system.

24462 IB Language A: Literature–Japanese

Courses in this classification prepare students to take the International Baccalaureate Language A: Literature exams. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses and critiques of this literature, and other oral and written assignments. The course is designed for students highly competent in using Japanese in an academic context and is intended for students with native or near-native fluency in the language.

24463 IB Language B–Japanese

Courses in this classification prepare students to take the International Baccalaureate Language B exams. These courses focus on improving students' accuracy and fluency in oral and written communication (usually in the students' "second" language).

24464 AP Japanese Language and Culture

Designed by the College Board to parallel third-year college-level courses in Japanese language, courses in this classification build upon prior knowledge and develop students' ability to express ideas, exchange opinions, and present information in Japanese, both orally and in writing. These courses also help students understand and interpret written and spoken Japanese. In addition, students explore the culture of Japanese-speaking people in historical and contemporary contexts.

24466 IB Language B (Japanese), Middle Years Program

Courses in this classification enable students to make progress toward competence in modern Japanese and encourage respect for and understanding of other languages and cultures.

24467 IB Language A: Language and Literature–Japanese

Courses in this classification prepare students to take the International Baccalaureate Language A: Language and Literature exams. Course content includes in-depth study of composition for purpose and audience, forms of mass communication and the media, and the context and elements of literature. The course includes oral and written assignments and is designed for students highly competent in using Japanese in an academic context.

24468 IB Language Ab Initio–Japanese

Courses in this classification prepare students to take the International Baccalaureate exam. These courses focus on developing the linguistic abilities of students with little or no experience with the language of study. Course content includes the study of individuals and society, leisure and work, and urban and rural environments. These courses also provide students with the opportunity to practice and explore this language.

24469 Japanese Language–Other

(Provide local course description.)

24499 East Asian Language–Other

(Provide local course description.)

H. Southeast Asian Languages

24550 Hmong for Young Learners (prior to secondary)

Hmong for Young Learners (prior-to-secondary) courses provide instruction at multiple grade levels in Hmong and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in Hmong by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices and perspectives of Hmong-speaking cultures.

24551 Hmong Immersion (prior to secondary)

Courses in this classification engage students in developmentally appropriate activities to acquire literacy and oracy in Hmong and grade-specific content using Hmong as the language of instruction. Hmong Immersion courses prepare students to communicate authentically in Hmong by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information about standards-based academic content and incorporate the relationships among the products, practices and perspectives of Hmong-speaking cultures.

24552 Hmong I

Designed to introduce students to Hmong language and culture, courses in this classification prepare students to communicate authentically in Hmong by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices and perspectives of Hmong-speaking cultures.

24553 Hmong II

Courses in this classification prepare students to communicate authentically in Hmong by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices and perspectives of Hmong-speaking countries and cultures.

24554 Hmong III

Courses in this classification prepare students to communicate authentically in Hmong by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices and perspectives of Hmong-speaking countries and cultures.

24555 Hmong IV

Courses in this classification prepare students to communicate authentically in Hmong by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Hmong IV courses promote students' understanding of the relationships among the products, practices and perspectives of Hmong-speaking countries and cultures.

24556 Hmong V

Courses in this classification prepare students to communicate authentically in Hmong by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Hmong V courses promote students' understanding of the relationships among the products, practices and perspectives of Hmong-speaking countries and cultures.

24557 Hmong for Native Speakers

Hmong for Native Speakers courses prepare native and heritage speakers to communicate in Hmong in all modes. These courses reinforce and expand students' skills to interpret (read, listen, view) and present (speak, write) information at the same level as they exchange (speak and listen; read and write) information, concepts, and ideas on a variety of topics. Hmong for Native Speakers courses advance students' understanding of the relationships among the products, practices and perspectives of the cultures included in the Hmong-speaking world.

24558 Hmong Field Experience

Courses in this classification place students in environments in which they interact with native Hmong speakers, typically in settings where Hmong is the main language spoken. These courses enable students to strengthen their skills in exchanging (speaking/listening and writing/reading), interpreting (reading, listening, and viewing), and presenting information and their ability to interact in culturally appropriate ways.

24560 Hmong Literature

Courses in this classification prepare students to communicate authentically in Hmong by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, opinions and ideas drawn from literature written in Hmong. Emphasis is typically placed on critical and analytical reading and writing, understanding the integration of Hmong cultures into literature, and exploring interdisciplinary connections.

24561 Particular Topics in Hmong

Courses in this classification examine particular topics focused on Hmong language or culture, such as film, music, application(s) to career/technical fields, or a specific dialect, other than those already described elsewhere in this classification system.

24562 IB Language A: Literature–Hmong

Courses in this classification prepare students to take the International Baccalaureate Language A: Literature exams. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses and critiques of this literature, and other oral and written assignments. The course is designed for students highly competent in using Hmong in an academic context and is intended for students with native or near-native fluency in the language.

24566 IB Language B (Hmong), Middle Years Program

Courses in this classification enable students to make progress toward competence in modern Hmong and encourage respect for and understanding of other languages and cultures.

24567 IB Language A: Language and Literature–Hmong

Courses in this classification prepare students to take the International Baccalaureate Language A: Language and Literature exams. Course content includes in-depth study of composition for purpose and audience, forms of mass communication and the media, and the context and elements of literature. The course includes oral and written assignments and is designed for students highly competent in using Hmong in an academic context.

24599 Hmong Language–Other

(Provide local course description.)

24649 Southeast Asian/Austral-Asian Languages–Other

(Provide local course description.)

I. Balto-Slavic Languages

24650 Russian for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in Russian and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in Russian by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices and perspectives of Russian-speaking cultures.

24651 Russian Immersion (prior to secondary)

Courses in this classification engage students in developmentally appropriate activities to acquire literacy and oracy in Russian and grade-specific content using Russian as the language of instruction. Russian Immersion courses prepare students to communicate authentically in Russian by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information about standards-based academic content and incorporate the relationships among the products, practices and perspectives of Russian-speaking cultures.

24652 Russian I

Designed to introduce students to Russian language and culture, courses in this classification prepare students to communicate authentically in Russian by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices and perspectives of Russian-speaking cultures.

24653 Russian II

Courses in this classification build upon skills developed in Russian I, preparing students to communicate authentically in Russian by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Russian II courses introduce the relationships among the products, practices and perspectives of Russian-speaking cultures.

24654 Russian III

Courses in this classification prepare students to communicate authentically in Russian by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices and perspectives of Russian-speaking countries and cultures.

24655 Russian IV

Courses in this classification prepare students to communicate authentically in Russian by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. Russian IV courses promote students' understanding of the relationships among the products, practices and perspectives of Russian-speaking countries and cultures.

24656 Russian V

Courses in this classification prepare students to communicate authentically in Russian by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Russian V courses promote students' understanding of the relationships among the products, practices and perspectives of Russian-speaking countries and cultures.

24657 Russian for Native Speakers

Courses in this classification prepare native and heritage speakers to communicate in Russian in all modes. These courses reinforce and expand students' skills to interpret (read, listen, view) and present (speak, write) information at the same level as they exchange (speak and listen; read and write) information, concepts and ideas on a variety of topics. Russian for Native Speakers courses advance students' understanding of the relationships among the products, practices and perspectives of the cultures included in the Russian-speaking world.

24658 Russian Field Experience

Courses in this classification place students in environments in which they interact with native Russian speakers, typically in settings where Russian is the main language spoken. These courses enable students to strengthen their skills in exchanging (speaking/listening and writing/reading), interpreting (reading, listening, and viewing), and presenting information and their ability to interact in culturally appropriate ways.

24660 Russian Literature

Courses in this classification prepare students to communicate authentically in Russian by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, opinions and ideas drawn from literature written in Russian. Emphasis is typically placed on critical and analytical reading and writing, understanding the integration of Russian cultures into literature, and exploring interdisciplinary connections.

24661 Particular Topic in Russian

Courses in this classification examine particular topics focused on Russian language or culture, such as film, music, application(s) to career/technical fields, or a specific dialect, other than those already described elsewhere in this classification system.

24662 IB Language A: Literature–Russian

Courses in this classification prepare students to take the International Baccalaureate Language A: Literature exams. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses and critiques of this literature, and other oral and written assignments. The course is designed for students highly competent in using Russian in an academic context and is intended for students with native or near-native fluency in the language.

24663 IB Language B–Russian

Courses in this classification prepare students to take the International Baccalaureate Language B exams. These courses focus on improving students' accuracy and fluency in oral and written communication (usually in the students' "second" language).

24666 IB Language B (Russian), Middle Years Program

Courses in this classification allow students to make progress toward competence in modern Russian and encourage respect for and understanding of other languages and cultures.

24667 IB Language A: Language and Literature–Russian

Courses in this classification prepare students to take the International Baccalaureate Language A: Language and Literature exams. Course content includes in-depth study of composition for purpose and audience, forms of mass communication and the media, and the context and elements of literature. The course includes oral and written assignments and is designed for students highly competent in using Russian in an academic context.

24668 IB Language Ab Initio–Russian

Courses in this classification prepare students to take the International Baccalaureate exam. These courses focus on developing the linguistic abilities of students with little or no experience with the language of study. Course content includes the study of individuals and society, leisure and work, and urban and rural environments. These courses also provide students with the opportunity to practice and explore this language.

24699 Russian Language–Other

(Provide local course description.)

L. Semitic and Near/Middle Eastern Languages

24700 Hebrew for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in Hebrew and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in Hebrew by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices, and perspectives of Hebrew-speaking cultures.

24701 Hebrew Immersion (prior to secondary)

Courses in this classification engage students in developmentally appropriate activities to acquire literacy and oracy in Hebrew and grade-specific content using Hebrew as the language of instruction. Hebrew Immersion courses prepare students to communicate authentically in Hebrew by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information about standards-based academic content and incorporate the relationships among the products, practices and perspectives of Hebrew-speaking cultures.

24702 Hebrew I

Designed to introduce students to Hebrew language and culture, courses in this classification prepare students to communicate authentically in Hebrew by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices and perspectives of Hebrew-speaking cultures.

24703 Hebrew II

Courses in this classification build upon skills developed in Hebrew I, preparing students to communicate authentically in Hebrew by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Hebrew II courses introduce the relationships among the products, practices and perspectives of Hebrew-speaking cultures.

24704 Hebrew III

Courses in this classification prepare students to communicate authentically in Hebrew by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices and perspectives of Hebrew-speaking countries and cultures.

24705 Hebrew IV

Courses in this classification prepare students to communicate authentically in Hebrew by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Hebrew IV courses promote students' understanding of the relationships among the products, practices and perspectives of Hebrew-speaking countries and cultures.

24706 Hebrew V

Courses in this classification prepare students to communicate authentically in Hebrew by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Hebrew V courses promote students' understanding of the relationships among the products, practices and perspectives of Hebrew-speaking countries and cultures.

24707 Hebrew for Native Speakers

Courses in this classification prepare native and heritage speakers to communicate in Hebrew in all modes. These courses reinforce and expand students' skills to interpret (read, listen, view) and present (speak, write) information at the same level as they exchange (speak and listen; read and write) information, concepts, and ideas on a variety of topics. Hebrew for Native Speakers courses advance students' understanding of the relationships among the products, practices and perspectives of the cultures included in the Hebrew-speaking world.

24708 Hebrew Field Experience

Courses in this classification place students in environments in which they interact with native Hebrew speakers, typically in settings where Hebrew is the main language spoken. These courses enable students to strengthen their skills in exchanging (speaking/listening and writing/reading), interpreting (reading, listening, and viewing), and presenting information and their ability to interact in culturally appropriate ways.

24710 Hebrew Literature

Courses in this classification prepare students to communicate authentically in Hebrew by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, opinions and ideas drawn from literature written in Hebrew. Emphasis is typically placed on critical and analytical reading and writing, understanding the integration of Hebrew cultures into literature, and exploring interdisciplinary connections.

24711 Particular Topics in Hebrew

Courses in this classification examine particular topics focused on Hebrew language or culture, such as film, music, application(s) to career/technical fields, or a specific dialect, other than those already described elsewhere in this classification system.

24712 IB Language A: Literature–Hebrew

Courses in this classification prepare students to take the International Baccalaureate exam. These courses focus on developing the linguistic abilities of students with little or no experience with the language of study. Course content includes the study of individuals and society, leisure and work, and urban and rural environments. These courses also provide students with the opportunity to practice and explore this language.

24713 IB Language B–Hebrew

Courses in this classification prepare students to take the International Baccalaureate Language B exams. These courses focus on improving students' accuracy and fluency in oral and written communication (usually in the students' "second" language).

24716 IB Language B (Hebrew), Middle Years Program

Courses in this classification enable students to make progress toward competence in modern Hebrew and encourage respect for and understanding of other languages and cultures.

24717 IB Language A: Language and Literature–Hebrew

Courses in this classification prepare students to take the International Baccalaureate Language A: Language and Literature exams. Course content includes in-depth study of composition for purpose and audience, forms of mass communication and the media, and the context and elements of literature. The course includes oral and written assignments and is designed for students highly competent in using Hebrew in an academic context.

24749 Hebrew Language–Other

(Provide local course description.)

24750 Arabic for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in Arabic and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in Arabic by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices and perspectives of Arabic-speaking cultures.

24751 Arabic Immersion (prior to secondary)

Courses in this classification engage students in developmentally appropriate activities to acquire literacy and oracy in Arabic and grade-specific content using Arabic as the language of instruction. Arabic Immersion courses prepare students to communicate authentically in Arabic by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information about standards-based academic content and incorporate the relationships among the products, practices and perspectives of Arabic-speaking cultures.

24752 Arabic I

Designed to introduce students to Arabic language and culture, courses in this classification prepare students to communicate authentically in Arabic by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices and perspectives of Arabic-speaking cultures.

24753 Arabic II

Courses in this classification build upon skills developed in Arabic I, preparing students to communicate authentically in Arabic by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Arabic II courses introduce the relationships among the products, practices and perspectives of Arabic-speaking cultures.

24754 Arabic III

Courses in this classification prepare students to communicate authentically in Arabic by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices and perspectives of Arabic-speaking countries and cultures.

24755 Arabic IV

Courses in this classifications prepare students to communicate authentically in Arabic by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. Arabic IV courses promote students' understanding of the relationships among the products, practices and perspectives of Arabic-speaking countries and cultures.

24756 Arabic V

Courses in this classification prepare students to communicate authentically in Arabic by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Arabic V courses promote students' understanding of the relationships among the products, practices and perspectives of Arabic-speaking countries and cultures.

24757 Arabic for Native Speakers

Courses in this classification prepare native and heritage speakers to communicate in Arabic in all modes. These courses reinforce and expand students' skills to interpret (read, listen, view) and present (speak, write) information at the same level as they exchange (speak and listen; read and write) information, concepts and ideas on a variety of topics. Arabic for Native Speakers courses advance students' understanding of the relationships among the products, practices and perspectives of the cultures included in the Arabic-speaking world.

24758 Arabic Field Experience

Courses in this classification place students in environments in which they interact with native Arabic speakers, typically in settings where Arabic is the main language spoken. These courses enable students to strengthen their skills in exchanging (speaking/listening and writing/reading), interpreting (reading, listening, and viewing), and presenting information and their ability to interact in culturally appropriate ways.

24760 Arabic Literature

Courses in this classification prepare students to communicate authentically in Arabic by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, opinions and ideas drawn from literature written in Arabic. Emphasis is typically placed on critical and analytical reading and writing, understanding the integration of Arabic cultures into literature, and exploring interdisciplinary connections.

24761 Particular Topics in Arabic

Courses in this classification examine particular topics focused on Arabic language or culture, such as film, music, application(s) to career/technical fields, or a specific dialect, other than those already described elsewhere in this classification system.

24762 IB Language A: Literature–Arabic

Courses in this classification prepare students to take the International Baccalaureate Language A: Literature exams. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses and critiques of this literature, and other oral and written assignments. The course is designed for students highly competent in using Arabic in an academic context and is intended for students with native or near-native fluency in the language.

24763 IB Language B–Arabic

Courses in this classification prepare students to take the International Baccalaureate Language B exams. These courses focus on improving students' accuracy and fluency in oral and written communication (usually in the students' "second" language).

24766 IB Language B (Arabic), Middle Years Program

Courses in this classification allow students to make progress toward competence in modern Arabic and encourage respect for and understanding of other languages and cultures.

24767 IB Language A: Language and Literature–Arabic

Courses in this classification prepare students to take the International Baccalaureate Language A: Language and Literature exams. Course content includes in-depth study of composition for purpose and audience, forms of mass communication and the media, and the context and elements of literature. The course includes oral and written assignments and is designed for students highly competent in using Arabic in an academic context.

24768 IB Language Ab: Language Initio–Arabic

Courses in this classification prepare students to take the International Baccalaureate exam. These courses focus on developing the linguistic abilities of students with little or no experience with the language of study. Course content includes the study of individuals and society, leisure and work, and urban and rural environments. These courses also provide students with the opportunity to practice and explore this language.

24799 Arabic Language–Other

(Provide local course description.)

M. Non-Semitic African Languages

24800 Swahili for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in Swahili and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in Swahili by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices and perspectives of Swahili-speaking cultures.

24801 Swahili Immersion (prior to secondary)

Courses in this classification engage students in developmentally appropriate activities to acquire literacy and oracy in Swahili and grade-specific content using Swahili as the language of instruction. Swahili Immersion courses prepare students to communicate authentically in Swahili by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information about standards-based academic content and incorporate the relationships among the products, practices and perspectives of Swahili-speaking cultures.

24802 Swahili I

Designed to introduce students to Swahili language and culture, courses in this classification prepare students to communicate authentically in Swahili by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices and perspectives of Swahili-speaking cultures.

24803 Swahili II

Courses in this classification build upon skills developed in Swahili I, preparing students to communicate authentically in Swahili by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Swahili II courses introduce the relationships among the products, practices and perspectives of Swahili-speaking cultures.

24804 Swahili III

Courses in this classification prepare students to communicate authentically in Swahili by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices and perspectives of Swahili-speaking countries and cultures.

24805 Swahili IV

Courses in this classification prepare students to communicate authentically in Swahili by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Swahili IV courses promote students' understanding of the relationships among the products, practices and perspectives of Swahili-speaking countries and cultures.

24806 Swahili V

Courses in this classification prepare students to communicate authentically in Swahili by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Swahili V courses promote students' understanding of the relationships among the products, practices and perspectives of Swahili-speaking countries and cultures.

24807 Swahili for Native Speakers

Courses in this classification prepare native and heritage speakers to communicate in Swahili in all modes. These courses reinforce and expand students' skills to interpret (read, listen, view) and present (speak, write) information at the same level as they exchange (speak and listen; read and write) information, concepts, and ideas on a variety of topics. Swahili for Native Speakers courses advance students' understanding of the relationships among the products, practices and perspectives of the cultures included in the Swahili-speaking world.

24808 Swahili Field Experience

Courses in this classification place students in environments in which they interact with native Swahili speakers, typically in settings where Swahili is the main language spoken. These courses enable students to strengthen their skills in exchanging (speaking/listening and writing/reading), interpreting (reading, listening, and viewing), and presenting information and their ability to interact in culturally appropriate ways.

24810 Swahili Literature

Courses in this classification prepare students to communicate authentically in Swahili by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, opinions, and ideas drawn from literature written in Swahili. Emphasis is typically placed on critical and analytical reading and writing, understanding the integration of Swahili cultures into literature, and exploring interdisciplinary connections.

24811 Particular Topics in Swahili

Courses in this classification examine particular topics focused on Swahili language or culture, such as film, music, application(s) to career/technical fields, or a specific dialect, other than those already described elsewhere in this classification system.

24812 IB Language A: Literature–Swahili

Courses in this classification prepare students to take the International Baccalaureate Language A: Literature exams. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses and critiques of this literature, and other oral and written assignments. The course is designed for students highly competent in using Swahili in an academic context and is intended for students with native or near-native fluency in the language.

24813 IB Language B–Swahili

Courses in this classification prepare students to take the International Baccalaureate Language B exams. These courses focus on improving students' accuracy and fluency in oral and written communication (usually in the students' "second" language).

24816 IB Language B (Swahili), Middle Years Program

Courses in this classification enable students to make progress toward competence in modern Swahili and encourage respect for and understanding of other languages and cultures.

24817 IB Language A: Language and Literature–Swahili

Courses in this classification prepare students to take the International Baccalaureate Language A: Language and Literature exams. Course content includes in-depth study of composition for purpose and audience, forms of mass communication and the media, and the context and elements of literature. The course includes oral and written assignments and is designed for students highly competent in using Swahili in an academic context.

24818 IB Language Ab Initio–Swahili

Courses in this classification prepare students to take the International Baccalaureate exam. These courses focus on developing the linguistic abilities of students with little or no experience with the language of study. Course content includes the study of individuals and society, leisure and work, and urban and rural environments. These courses also provide students with the opportunity to practice and explore this language.

24819 Swahili Language–Other

(Provide local course description.)

24820 Somali for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in Somali and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in Somali by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices and perspectives of Somali-speaking cultures.

24821 Somali Immersion (prior to secondary)

Courses in this classification engage students in developmentally appropriate activities to acquire literacy and oracy in Somali and grade-specific content using Somali as the language of instruction. Somali Immersion courses prepare students to communicate authentically in Somali by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information about standards-based academic content and incorporate the relationships among the products, practices and perspectives of Somali-speaking cultures.

24822 Somali I

Designed to introduce students to Somali language and culture, courses in this classification prepare students to communicate authentically in Somali by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices and perspectives of Somali-speaking cultures.

24823 Somali II

Courses in this classification build upon skills developed in Somali I, preparing students to communicate authentically in Somali by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Somali II courses introduce the relationships among the products, practices and perspectives of Somali-speaking cultures.

24824 Somali III

Courses in this classification prepare students to communicate authentically in Somali by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices and perspectives of Somali-speaking countries and cultures.

24825 Somali IV

Courses in this classification prepare students to communicate authentically in Somali by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Somali IV courses promote students' understanding of the relationships among the products, practices and perspectives of Somali-speaking countries and cultures.

24826 Somali V

Courses in this classification prepare students to communicate authentically in Somali by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics, including connections to other subject areas. Somali V courses promote students' understanding of the relationships among the products, practices and perspectives of Somali-speaking countries and cultures.

24827 Somali for Native Speakers

Courses in this classification prepare native and heritage speakers to communicate in Somali in all modes. These courses reinforce and expand students' skills to interpret (read, listen, view) and present (speak, write) information at the same level as they exchange (speak and listen; read and write) information, concepts and ideas on a variety of topics. Somali for Native Speakers courses advance students' understanding of the relationships among the products, practices and perspectives of the cultures included in the Somali-speaking world.

24828 Somali Field Experience

Courses in this classification place students in environments in which they interact with native Somali speakers, typically in settings where Somali is the main language spoken. These courses enable students to strengthen their skills in exchanging (speaking/listening and writing/reading), interpreting (reading, listening, and viewing), and presenting information and their ability to interact in culturally appropriate ways.

24830 Somali Literature

Courses in this classification prepare students to communicate authentically in Somali by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, opinions and ideas drawn from literature written in Somali. Emphasis is typically placed on critical and analytical reading and writing, understanding the integration of Somali cultures into literature, and exploring interdisciplinary connections.

24831 Particular Topics in Somali

Courses in this classification examine particular topics focused on Somali language or culture, such as film, music, application(s) to career/technical fields, or a specific dialect, other than those already described elsewhere in this classification system.

24832 IB Language A: Literature–Somali

Courses in this classification prepare students to take the International Baccalaureate Language A: Literature exams. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses and critiques of this literature, and other oral and written assignments. The course is designed for students highly competent in using Somali in an academic context and is intended for students with native or near-native fluency in the language.

24836 IB Language B (Somali), Middle Years Program

Courses in this classification enable students to make progress toward competence in modern Somali and encourage respect for and understanding of other languages and cultures.

24837 IB Language A: Language and Literature–Somali

Courses in this classification prepare students to take the International Baccalaureate Language A: Language and Literature exams. Course content includes in-depth study of composition for purpose and audience, forms of mass communication and the media, and the context and elements of literature. The course includes oral and written assignments and is designed for students highly competent in using Somali in an academic context.

24838 IB Language Ab Initio–Somali

Courses in this classification prepare students to take the International Baccalaureate exam at the standard level. These courses focus on developing the linguistic abilities of students with little or no experience with the language of study. Course content includes the study of individuals and society, leisure and work, and urban and rural environments. These courses also provide students with the opportunity to practice and explore this language.

24839 Somali Language–Other

(Provide local course description.)

24849 Non-Semitic African Languages–Other

(Provide local course description.)

N. American Sign Languages

24850 American Sign Languages for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in American Sign Language and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in American Sign Language by interpreting (reading/viewing), exchanging (signing and reading), and presenting (signing) information on concrete topics. These courses introduce the relationship among the practices, perspectives and cultures of Deaf people and communities.

24851 American Sign Language Immersion (prior to secondary)

Courses in this classification engage students in developmentally appropriate activities to acquire literacy and oracy in American Sign Language and grade-specific content using American Sign Language as the language of instruction. American Sign Language Immersion courses prepare students to communicate authentically in American Sign Language by interpreting (reading/viewing), exchanging (signing and reading), and presenting (signing) information about standards-based academic content and incorporate the relationships among the practices, perspectives and cultures of Deaf people and communities.

24852 American Sign Language I

Designed to introduce students to American Sign Language language and culture, courses in this classification prepare students to communicate authentically in American Sign Language by interpreting (reading/viewing), exchanging (signing and reading), and presenting (signing) information on a variety of topics. They introduce the relationship among the practices, perspectives and cultures of Deaf people and communities.

24853 American Sign Language II

Courses in this classification build upon skills developed in American Sign Language I, preparing students to communicate authentically in American Sign Language by interpreting (reading/viewing), exchanging (signing and reading), and presenting (signing) information on concrete topics. American Sign Language II courses introduce the relationship among the practices, perspectives and cultures of Deaf people and communities.

24854 American Sign Language III

Courses in this classification prepare students to communicate authentically in American Sign Language by interpreting (reading/viewing), exchanging (signing and reading), and presenting (signing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the practices, perspectives, and cultures of Deaf people and communities.

24855 American Sign Language IV

Courses in this classification prepare students to communicate authentically in American Sign Language by interpreting (reading/viewing), exchanging (signing and reading), and presenting (signing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. American Sign Language IV courses promote students' understanding of the relationships among the practices, perspectives and cultures of Deaf people and communities.

24856 American Sign Language V

Courses in this classification prepare students to communicate authentically in American Sign Language by interpreting (reading/viewing), exchanging (signing and reading), and presenting (signing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. American Sign Language V courses promote students' understanding of the relationships among the practices, perspectives and cultures of Deaf people and communities.

24858 American Sign Language Field Experience

Courses in this classification place students in environments in which they interact with native American Sign Language speakers, typically in settings where American Sign Language is the main language spoken. These courses enable students to strengthen their skills in exchanging (signing and reading/viewing), interpreting and presenting information and their ability to interact in culturally appropriate ways.

24861 Particular Topics in American Sign Language

Courses in this classification examine particular topics focused on American Sign Language language or culture, such as translation, interpreting, application(s) to career/technical fields, or a specific dialect, other than those already described.

24866 IB Language B (American Sign Language), Middle Years Program

Courses in this classification allow students to make progress toward competence in modern American Sign Language and encourage respect for and understanding of other languages and cultures.

24899 American Sign Language—Other

(Provide local course description.)

O. Native American Languages

24900 Dakota/Lakota for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in Dakota/Lakota and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in a Dakota/Lakota by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices and perspectives of the cultures associated with the language of study.

24901 Dakota/Lakota Immersion (prior to secondary)

Courses in this classification engage students in developmentally appropriate activities to acquire literacy and oracy in Dakota/Lakota and grade-specific content using that Dakota/Lakota as the language of instruction. Dakota/Lakota Immersion courses prepare students to communicate authentically in an Dakota/Lakota by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information about standards-based academic content and incorporate the relationships among the products, practices and perspectives of the cultures associated with the language of study.

24902 Dakota/Lakota I

Designed to introduce students to Dakota/Lakota language and culture, courses in this classification prepare students to communicate authentically in Dakota/Lakota by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices and perspectives of the cultures associated with the language of study.

24903 Dakota/Lakota II

Courses in this classifications build upon skills developed in Dakota/Lakota I, preparing students to communicate authentically in Dakota/Lakota by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Dakota/Lakota II courses introduce the relationships among the products, practices and perspectives of the cultures associated with the language of study.

24904 Dakota/Lakota III

Courses in this classification prepare students to communicate authentically in Dakota/Lakota by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics. These courses expand students' knowledge of relationships among the products, practices and perspectives of the cultures associated with the language of study.

24905 Dakota/Lakota IV

Courses in this classification prepare students to communicate authentically in Dakota/Lakota by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. Dakota/Lakota IV courses promote students' understanding of the relationships among the products, practices and perspectives of the cultures associated with the language of study.

24906 Dakota/Lakota V

Courses in this classification prepare students to communicate authentically in Dakota/Lakota by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. Dakota/Lakota V courses promote students' understanding of the relationships among the products, practices and perspectives of the cultures associated with the language of study.

24907 Dakota/Lakota for Native Speakers

Courses in this classification prepare native and heritage speakers to communicate in Dakota/Lakota in all modes. These courses reinforce and expand students' skills to interpret (read, listen, view) and present (speak, write) information at the same level as they exchange (speak and listen; read and write) information, concepts, and ideas on a variety of topics. Dakota/Lakota for Native Speakers courses advance students' understanding of the relationships among the products, practices and perspectives of the cultures associated with the language of study.

24908 Dakota/Lakota Field Experience

Courses in this classification place students in environments in which they interact with native Dakota/Lakota speakers, typically in settings where the Dakota/Lakota of study is the main language spoken. These courses enable students to strengthen their skills in exchanging (speaking/listening and writing/reading), interpreting (reading, listening, and viewing), and presenting information and their ability to interact in culturally appropriate ways.

24910 Dakota/Lakota Literature

Courses in this classification prepare students to communicate authentically in Dakota/Lakota by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, opinions, and ideas drawn from literature written in the Dakota/Lakota of study. Emphasis is typically placed on critical and analytical reading and writing, understanding the integration of American Indian cultures into literature, and exploring interdisciplinary connections.

24911 Particular Topics in Dakota/Lakota

Courses in this classification examine particular topics focused on Dakota/Lakota or culture, such as film, music, application(s) to career/technical fields, or a specific dialect, other than those already described.

24912 IB Language A: Literature–Dakota/Lakota

Courses in this classification prepare students to take the International Baccalaureate Language A: Literature exams. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses and critiques of this literature, and other oral and written assignments. The course is designed for students highly competent in using a Dakota/Lakota in an academic context and is intended for students with native or near-native fluency in the language.

24916 IB Language B (Dakota/Lakota), Middle Years Program

Courses in this classification allow students to gain competence in a modern Dakota/Lakota and encourage respect for and understanding of other languages and cultures.

24917 IB Language A: Language and Literature–Dakota/Lakota

Courses in this classification prepare students to take the International Baccalaureate Language A: Language and Literature exams. Course content includes in-depth study of composition for purpose and audience, forms of mass communication and the media, and the context and elements of literature. The course includes oral and written assignments and is designed for students highly competent in using an Dakota/Lakota in an academic context.

24918 Dakota/Lakota–Other

(Provide local course description.)

24919 Ojibwe for Young Learners (prior to secondary)

Courses in this classification provide instruction at multiple grade levels in Ojibwe and may apply to a range of consecutive grades. These courses prepare students to communicate authentically in an Ojibwe by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. These courses introduce the relationships among the products, practices and perspectives of the cultures associated with the language of study.

24920 Ojibwe Immersion (prior to secondary)

Courses in this classification engage students in developmentally appropriate activities to acquire literacy and oracy in Ojibwe and grade-specific content using that Ojibwe as the language of instruction. Ojibwe Immersion courses prepare students to communicate authentically in an Ojibwe by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information about standards-based academic content and incorporate the relationships among the products, practices and perspectives of the cultures associated with the language of study.

24921 Ojibwe I

Designed to introduce students to Ojibwe language and culture, courses in this classification prepare students to communicate authentically in Ojibwe by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices and perspectives of the cultures associated with the language of study.

24922 Ojibwe II

Courses in this classifications build upon skills developed in Ojibwe I, preparing students to communicate authentically in Ojibwe by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Ojibwe II courses introduce the relationships among the products, practices and perspectives of the cultures associated with the language of study.

24923 Ojibwe III

Courses in this classification prepare students to communicate authentically in Ojibwe by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts and ideas on a variety of topics. These courses expand students' knowledge of relationships among the products, practices and perspectives of the cultures associated with the language of study.

24924 Ojibwe IV

Courses in this classification prepare students to communicate authentically in Ojibwe by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. Ojibwe IV courses promote students' understanding of the relationships among the products, practices and perspectives of the cultures associated with the language of study.

24925 Ojibwe V

Courses in this classification prepare students to communicate authentically in Ojibwe by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. Ojibwe V courses promote students' understanding of the relationships among the products, practices and perspectives of the cultures associated with the language of study.

24926 Ojibwe for Native Speakers

Courses in this classification prepare native and heritage speakers to communicate in Ojibwe in all modes. These courses reinforce and expand students' skills to interpret (read, listen, view) and present (speak, write) information at the same level as they exchange (speak and listen; read and write) information, concepts and ideas on a variety of topics. Ojibwe for Native Speakers courses advance students' understanding of the relationships among the products, practices and perspectives of the cultures associated with the language of study.

24927 Ojibwe Field Experience

Courses in this classification place students in environments in which they interact with native Ojibwe speakers, typically in settings where the Ojibwe of study is the main language spoken. These courses enable students to strengthen their skills in exchanging (speaking/listening and writing/reading), interpreting (reading, listening, and viewing), and presenting information and their ability to interact in culturally appropriate ways.

24928 Ojibwe Literature

Courses in this classification prepare students to communicate authentically in Ojibwe by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, opinions, and ideas drawn from literature written in the Ojibwe of study. Emphasis is typically placed on critical and analytical reading and writing, understanding the integration of American Indian cultures into literature, and exploring interdisciplinary connections.

24929 Particular Topics in Ojibwe

Courses in this classification examine particular topics focused on Ojibwe or culture, such as film, music, application(s) to career/technical fields, or a specific dialect, other than those already described.

24930 IB Language A: Literature–Ojibwe

Courses in this classification prepare students to take the International Baccalaureate Language A: Literature exams. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses and critiques of this literature, and other oral and written assignments. The course is designed for students highly competent in using an Ojibwe in an academic context and is intended for students with native or near-native fluency in the language.

24931 IB Language B–Ojibwe

Courses in this classification prepare students to take the International Baccalaureate Language B exams. These courses focus on improving students' accuracy and fluency in oral and written communication (usually in the students' "second" language).

24932 IB Language B (Ojibwe), Middle Years Program

Courses in this classification allow students to gain competence in a modern Ojibwe and encourage respect for and understanding of other languages and cultures.

24933 IB Language A: Language and Literature–Ojibwe

Courses in this classification prepare students to take the International Baccalaureate Language A: Language and Literature exams. Course content includes in-depth study of composition for purpose and audience, forms of mass communication and the media, and the context and elements of literature. The course includes oral and written assignments and is designed for students highly competent in using an Ojibwe Language in an academic context.

24934 Ojibwe–Other

(Provide local course description.)

R. General

24995 World Language and Literature–Aide

Courses in this classification offer students the opportunity to assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

24996 Seminar/Project–World Languages

Courses in this classification vary widely, but typically offer students the opportunity to investigate areas of interest in world languages. They may include college and/or career exploration and planning. Students often design a project based on an area of interest and may work with a mentor. Course objectives may include, but are not limited to, improvement of research, presentation and communication skills as well as problem-solving and critical thinking. Courses may be offered as support for senior exit or other projects required for graduation.

24997 World Language and Literature–Independent Study

Courses in this classification, often conducted with instructors as mentors, enable students to explore (non-English) world language-related topics of interest. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular language, to explore a topic in greater detail, or to develop more advanced skills.

24998 World Language and Literature–Workplace Experience

Courses in this classification provide students with work experience in a field related to a (non-English) world language or literature. Goals are typically set cooperatively by the student, teacher and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.

24999 World Language and Literature–Other

(Provide local course description.)