

FY 2010 ODE EMIS MANUAL

Appendix C: Subject Codes and Definitions



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October 2, 2009

APPENDIX C REVISION HISTORY

Version	Change	Description
1.0	637	For Career Field 05: Added subject codes 350001, 350011, 350201. Career Field 08: added subject code 360230, Career Field 15: added subject codes 044110 and 044100.
1.0	637	Added missing definitions for courses added previously.
1.0	654	Updates made to Intervention and Informal/Applied Mathematics courses.
1.0	655	Added 139997 as Other Science focused on grade 9 and 10 standards; marked existing Other Science (139999) for deletion in FY11.
1.0	656	Added 139998 as Other Advanced Science.
1.0	694	Deleted all reporting instructions.
1.0	740	Removed ELI reference from 180108.

The revision history provides a means for the readers to easily navigate to the places in the manual where updates have occurred. Where there has been a significant change or update it will be highlighted. Minor changes, such as typos, formatting, and grammar, are not highlighted.

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ACADEMIC CONTENT AREAS SECTION

FINE ARTS SECTION

Table 1. Dance Codes (0803xx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
080312	Introduction to Dance A study of the skills and processes necessary to understand and experience dance as an art form and as a means of meaningful communication. Emphasis is placed on kinesthetic intelligence and the fundamentals of dance and choreography. Study also emphasizes the role of dance throughout history and in different cultures.	FAR	Arts
080315	Comprehensive Dance A comprehensive study of the knowledge and processes of creating, performing, responding to, and representing ideas through the art form of dance. Multiculturalism, art history, art criticism and aesthetics are incorporated into course content and dance experiences for individual and group learning.	FAR	Arts

Table 2. Drama/Theatre Arts Codes (050xxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
050337	Drama/Theatre in grades K-8 The study of dramatic elements and theatrical techniques, particularly in an improvisational, non-exhibitional, process-centered manner, designed to develop imagination, communication, and expressive skills.	N/A	Arts
050600	Theatre Arts Subject matter and experiences are concerned with a wide range of studies and activities including playwriting, dramatic literature, scene design, technical theatre, acting, directing, and the supporting of arts and crafts of the theatre and of selected aspects of video, radio, television and film.	FAR	Arts

Table 3. Music Codes (12xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
122000	Music (K-8) Organized study of the elements and styles of music and the historical, cultural and societal context of music designed for all pupils in grades K-8.	N/A	Arts
120000	General Music Organized subject matter and musical experiences consisting of an extensive and varied study of music designed for all pupils in grades K-12.	FAR	Arts
120300	Music Theory The study of the principles of music, including rudiments, harmony, counterpoint, form and analysis, orchestration and skills such as sight singing, ear training, conducting and composing.	FAR	Arts
120400	Vocal/Choral Music Learning experiences designed for the study of vocal / choral repertoire and the development of vocal / choral skills through solo and ensemble performance.	FAR	Arts
120500	Instrumental Music Learning experiences designed for the study of instrumental repertoire and the development of instrumental skills through solo and ensemble performance.	FAR	Arts
120800	Music Appreciation Organized subject matter and learning experiences designed to further pupils' knowledge, comprehension, and appreciation of various types and styles of music.	FAR	Arts
129926	AP Music Theory An advanced study of melody, harmony, texture, rhythm, form, musical analysis and composition. Follows the current Advanced Placement syllabus.	FAR	Arts
129999	Other Music Course A music course that is given for high school credit toward graduation that is different in scope from any of the other SUBJECT CODES described above and which addresses important content (knowledge and skills) in the study of music.	FAR	Arts

Table 4. Visual Art Codes (02xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
020012	Visual Art (K-12) A study of the knowledge, skills and processes for observing, creating, responding and communicating in ways that are unique to visual art. Art production and the construction of meaning in visual artworks are complimentary learning activities. Course content may include meaningful connections between visual art and other disciplines to enable students to understand art in a broader context.	FAR	Arts
020100	Art Appreciation The study of works of visual art from various historical, cultural and social contexts. Instruction addresses multiple strategies for inquiry to enable students to develop and present their own views and responses to specific artworks and to discuss the viewpoints of others.	FAR	Arts
020101	Art History This course examines the reciprocal impact between visual art and historical, cultural, social and political contexts. Key artworks are studied chronologically and thematically with emphasis on subject matter, ideas, and the formal, technical and expressive aspects of the works.	FAR	Arts
020210	Design This course emphasizes study of the elements and principles of art and design. Students explore, organize, and use the elements and principles to create two- and three-dimensional original work in various forms and media.	FAR	Arts
020240	Crafts Students acquire utilitarian skills including weaving, jewelry-making, fabric crafting, basketry, metalsmithing, leather-shaping, and wood-forming. Objects by professional craftspeople are studied for their formal, expressive, and technical qualities.	FAR	Arts
020242	Ceramics Original objects (primary pottery and sculpture) are created with clay using hand building, casting, wheel forming, and glazing techniques. Objects created by professional ceramists are examined for their expressive, formal, and technical qualities.	FAR	Arts
020250	Drawing and Painting Pencil, pen and ink, chalk, charcoal, acrylics, oils, and watercolors are explored to create original personal images. Drawings and paintings by culturally and historically representative artists are examined for their formal, expressive, and technical qualities.	FAR	Arts
020270	Photography and Film Making Still and motion picture camera procedures are investigated along with darkroom developing and printing techniques. The expressive, formal, and technical qualities of professional work are studied.	FAR	Arts

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
020280	Printmaking Linoleum block printing, woodblock printing, silk-screen printing, and etching are studied as processes for expressing ideas. Professional printmakers' products are also examined.	FAR	Arts
020290	Sculpture Various media such as clay, metal, wood, stone, and wire and various processes such as carving, casting, soldering, and modeling are investigated as means for creating three-dimensional artistic forms. Professional sculptors' works are studied.	FAR	Arts
029902	Advanced Visual Art An advanced course of organized subject matter and experiences in art. Works from different cultures and time periods as well as those created by the students are studied.	FAR	Arts
020320	Graphic Arts/Unified Arts Computer design is explored to develop understanding of techniques, processes and possibilities of electronic media to understand, create and appreciate visual art.	FAR	Arts
029100	AP Studio Art – Drawing An advanced placement course in drawing for students who are highly motivated and have previous training in art. Follows the current Advanced Placement syllabus.	FAR	Arts
029110	AP Studio Art – 2D Design An advanced placement course in two-dimensional art design for students who are highly motivated and have previous training in art. Follows the current Advanced Placement syllabus.	FAR	Arts
029120	AP Studio Art – 3D Design An advanced placement course in three-dimensional art design for students who are highly motivated and have previous training in art. Follows the current Advanced Placement syllabus.	FAR	Arts
029130	AP Art History An advanced study of art history. Follows the current Advanced Placement syllabus.	FAR	Arts
029999	Other Visual Art Course A course that is given for high school credit toward graduation, but that is different in scope from any of the other SUBJECT CODES described above and which addresses important content (knowledge and skills) in the study of visual art.	FAR	Arts

BUSINESS EDUCATION SECTION

Table 5. Business Education (Non-Career Technical) Codes (03xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
030100	Accounting Instruction focuses on the management of a company's financial resources including the accounting cycle, financial statements, and interpretation and use of financial data. Content should be based on National Business Education Association (NBEA) content standards. Only grade 9-12 courses based on standards from the 9-12 grade band of NBEA Standards are eligible for high school credit.	BUS	—
030500	Business Mathematics Students develop the skills necessary to solve mathematical problems, analyze and interpret data, and apply sound decision-making skills in business. Content should be based on National Business Education Association (NBEA) content standards. Only grade 9-12 courses based on standards from the 9-12 grade band of NBEA Standards are eligible for high school credit.	BUS, MTH	Mathematics
030600	Business Communications Students master the oral and written communication skills essential to interacting effectively with people in the workplace and society. Content should be based on National Business Education Association (NBEA) content standards. Only grade 9-12 courses based on standards from the 9-12 grade band of NBEA Standards are eligible for high school credit.	BUS, ENG	English
030900	Business Law Addresses statutes and regulations affecting businesses, families and individuals in their related roles. Content should be based on National Business Education Association (NBEA) content standards. Only grade 9-12 courses based on standards from the 9-12 grade band of NBEA Standards are eligible for high school credit.	BUS	—
031500	Personal Finance Students develop and utilize rational decision-making processes to form personal financial decisions in their roles as citizens, workers, and consumers. Content should be based on National Business Education Association (NBEA) content standards. Only grade 9-12 courses based on standards from the 9-12 grade band of NBEA Standards are eligible for high school credit.	BUS	—
031700	Computer Programming and Software Development Students design, develop, test and implement computer programs using structural/procedural, objective oriented, data description, scripting/control, and/or mark-up languages. Content should be based on National Business Education Association (NBEA) content standards. Only grade 9-12 courses based on standards from the 9-12 grade band of NBEA Standards are eligible for high school credit.	BUS, TEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
031800	Business Economics Develops student's abilities to make wise economic decisions related to their personal financial affairs, the successful operation of organizations, and the economic activities of the country. Content should be based on National Business Education Association (NBEA) content standards. Only grade 9-12 courses based on standards from the 9-12 grade band of NBEA Standards are eligible for high school credit.	BUS, SOC	Economics
032300	Introduction to Business/General Business The study of domestic and international business operations including start-up, financing, management, and standard practices. Content should be based on National Business Education Association (NBEA) content standards. Only grade 9-12 courses based on standards from the 9-12 grade band of NBEA Standards are eligible for high school credit.	BUS	—
032800	Office Procedures Instruction in office practices and procedures, office technology, office environment, records management, human relations, and telephone techniques. Content should be based on National Business Education Association (NBEA) content standards. Only grade 9-12 courses based on standards from the 9-12 grade band of NBEA Standards are eligible for high school credit.	BUS	—
033450	Business (Other) Abbreviated written and/or electronic communications.	BUS	—
036000	Computer Application Students identify, evaluate, select, install, use, upgrade, and customize application software. Computer applications include word processing, database, spreadsheet, presentation, and calendar-ing/scheduling software. Content should be based on National Business Education Association (NBEA) content standards. Only grade 9-12 courses based on standards from the 9-12 grade band of NBEA Standards are eligible for high school credit.	BUS, TEC	—

ENGLISH LANGUAGE ARTS SECTION

Table 6. English Language Arts Codes (05xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
050102	Reading K-3 This course should address the content in the K-3 portion of Ohio's academic content standards for reading. Reading instruction should include the reading of a variety of text (e.g., informational and literary), application of comprehension strategies and the building and extending of vocabulary.	N/A	Reading
050104	Reading 4-6 This course should address the content in the 4-6 portion of Ohio's academic content standards for reading. Reading instruction should include the reading of a variety of text (e.g., informational and literary), applications of the comprehension strategies and the building and extending of vocabulary.	N/A	Reading
050106	Reading 7-8 This course should address the content in the 7-8 portion of Ohio's academic content standards for reading. Reading instruction should include the reading of a variety of text (e.g., informational and literary), applications of the comprehension strategies and the building and extending of vocabulary.	N/A	Reading
050152	Integrated English Language Arts K-3 Instruction should be based on the benchmarks and indicators for grades K-3. Students should read grade appropriate text and use a variety of comprehension strategies for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned task and use effective communication techniques.	N/A	Language Arts
050154	Integrated English Language Arts 4-6 Instruction should be based on the benchmarks and indicators for grades 4-6. Students should read grade appropriate text and use a variety of comprehension strategies for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned task and use effective communication techniques.	N/A	Language Arts
050156	Integrated English Language Arts 7-8 Instruction should be based on the benchmarks and indicators for grades 7-8. Students should read grade appropriate text and use a variety of comprehension strategies for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned task and use effective communication techniques.	N/A	Language Arts

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
050160	Integrated English Language Arts I Integrated Language Arts Instruction addresses the content and skills of Ohio's Academic Content Standards for English Language Arts. Instruction should be based on the benchmarks for grades 8-10 and grade level indicators for grade <i>nine</i> . Students will read a variety of texts for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned topics use an appropriate form to communicate their findings and continue to use effective communication techniques.	ENG	Language Arts
050170	Integrated English Language Arts II Integrated Language Arts Instruction addresses the content and skills of Ohio's Academic Content Standards for English Language Arts. Instruction should be based on the benchmarks for grades 8-10 and grade level indicators for grade <i>ten</i> . Students will read a variety of texts for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned topics use an appropriate form to communicate their findings and continue to use effective communication techniques.	ENG	Language Arts
050180	Integrated English Language Arts III Integrated Language Arts Instruction addresses the content and skills of Ohio's Academic Content Standards for English Language Arts. Instruction should be based on the benchmarks for grades 11-12 and grade level indicators for grade <i>eleven</i> . Students will read a variety of texts for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned topics, use an appropriate form to communicate their findings and continue to use effective communication techniques.	ENG	Language Arts
050190	Integrated English Language Arts IV Integrated Language Arts Instruction addresses the content and skills of Ohio's Academic Content Standards for English Language Arts. Instruction should be based on the benchmarks for grades 11-12 and grade level indicators for grade <i>twelve</i> . Students will read a variety of texts for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned topics use an appropriate form to communicate their findings and continue to use effective communication techniques.	ENG	Language Arts
050014	Intervention English This course is designed for remedial study with emphasis on the English language arts Academic Content Standards and the Ohio Graduation Test.	ENG	English

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
050119	Intervention Reading This course is designed to provide special assistance in the development of reading skills and strategies for students who cannot construct meaning from what they read. Instruction addresses content from the reading benchmarks of the English language arts Academic Content Standards.	ENG	Reading
051905	English as a Second Language (ESL) Designed for individuals whose primary language is not English. The study of the English language and culture leading to the ability to function in everyday situations as well as in academic settings, with a special emphasis on Ohio's English Language Arts Academic Content Standards.	ENG	English
050220	Grammar and Usage This course emphasizes the editing phase of the writing process, providing students a variety of strategies for refining and editing their own writing. Instruction will be centered around the writing benchmarks of the English language arts Academic Content Standards.	ENG	English
050300	Literature This course is designed to provide instruction in the study of print materials, which have noteworthy content and excellence of style. Students apply the reading process to the various genres of literature. Instruction addresses content from the reading benchmarks of the English language arts Academic Content Standards.	ENG	English
050400	Composition This course will provide instruction in writing. Students will develop their writing with a focus on expository and persuasive techniques. Journals will be kept and portfolios will be maintained throughout the class. Instruction will be centered around the writing benchmarks of the English language arts Academic Content Standards.	ENG	English
050403	Journalism This course includes the study and practice of writing, editing and publishing newspapers and periodicals. Instruction centers on the writing and research standards in the English Language Arts Academic Content Standards.	ENG	English
050500	Speech This course covers subject matter and experiences in speech. A wide spectrum of studies and activities from the scientific (voice science) through the humanistic (rhetoric) will be taught. Behavioral sciences (group dynamics) as well as the artistic (oral interpretation of literature) will also be taught.	ENG	English

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
050545	Applied Communications This course gives students practice in communication skills of reading, writing, listening and speaking in their chosen vocations. Students learn to deliver presentations that effectively convey information and persuade or entertain audiences. Instruction centers on the Communication: Oral and Visual Standard in the English Language Arts Academic Content Standards.	ENG	English
059920	AP English Language & Composition This advanced course follows the current AP English syllabus and consists of organized subject matter and experiences emphasized in English that, upon successful completion, grants college credit to the student. Instruction will be centered around the reading and writing benchmarks of the English language arts Academic Content Standards.	ENG	English
059930	AP English Literature & Composition An advanced study of English literature and composition. Follows the current Advanced Placement syllabus. Instruction will be centered around the reading and writing benchmarks of the English language arts Academic Content Standards.	ENG	English
059999	Other English/Language Arts Course A topical course that can cover the different aspects of English Language arts. Instruction will be centered around the benchmarks of the English language arts Content Standards.	ENG	English

FAMILY & CONSUMER SCIENCES SECTION

The courses below earn Home Economics Credit.

Table 7. Family & Consumer Sciences (Non-Career Technical) Codes (23xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
230000	Family & Consumer Sciences Content from a combination of the various areas of family and consumer sciences.	HEC	—
230100	Clothing and Textiles Nature, acquisition, and the use of clothing and textiles.	HEC	—
230140	Foods and Nutrition Food and its role in personal and family living.	HEC	—
230200	Child Development and Parenting The developing child and the care and guidance of children.	HEC	—
230300	Consumer Education Consumer education as it relates to the management of homes and families.	HEC	—
230500	Family Living Nurturing human development through the life span.	HEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
230600	Housing and Home Furnishings Choosing, equipping and furnishing living environments.	HEC	—

FOREIGN LANGUAGE SECTION

Table 8. Foreign Language Codes (06xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
060101	Arabic The study of the language and culture of the Arabic world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts.	FLR	Foreign Language
060102	Chinese The study of the language and culture of the Chinese-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts.	FLR	Foreign Language
060103	Greek The study of the language, literature, and culture of the Ancient Greeks and their influence on modern civilization.	FLR	Foreign Language
060104	Hebrew The study of the language and culture of the Hebrew-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts.	FLR	Foreign Language
060107	Latin The study of the language, literature, and culture of Ancient Rome and its influence on modern civilization.	FLR	Foreign Language
060218	Russian The study of the language and culture of the Russian-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts.	FLR	Foreign Language
060221	Swahili The study of the language and culture of the Swahili-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts.	FLR	Foreign Language
060227	Czech The study of the language and culture of the Czech-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts.	FLR	Foreign Language
060230	French The study of the language and culture of the French-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts.	FLR	Foreign Language

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
060235	German The study of the language and culture of the German-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts.	FLR	Foreign Language
060245	Italian The study of the language and culture of the Italian-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts.	FLR	Foreign Language
060250	Japanese The study of the language and culture of the Japanese-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts.	FLR	Foreign Language
060255	Polish The study of the language and culture of the Polish-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts.	FLR	Foreign Language
060265	Spanish The study of the language and culture of the Spanish-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts.	FLR	Foreign Language
060900	Foreign Language (Exploratory) A language survey course during which students are exposed to several languages.	FLR	Foreign Language
060207	TESOL–English as a Second Language (ESL) The study of the language and culture of the English-speaking world leading to the ability to function in academic and everyday situations. Designed for individuals whose primary language is not English. This course focuses on English as a foreign language.	FLR	Foreign Language
061050	American Sign Language (ASL) The study of a visual-gestural language used by deaf people in the United States and part of Canada. ASL has its own culture, grammar, and vocabulary; is produced by using the hands, face, and body; and is not derived from any spoken language.	FLR	Foreign Language
069910	AP Chinese AP Chinese follows the current Advanced Placement syllabus in preparation for the Advanced Placement exam.	FLR	Foreign Language
069914	AP French Language AP French follows the current Advanced Placement syllabus in preparation for the Advanced Placement exam.	FLR	Foreign Language
069916	AP German Language AP German follows the current Advanced Placement syllabus in preparation for the Advanced Placement exam.	FLR	Foreign Language
069918	AP Italian Language AP Italian follows the current Advanced Placement syllabus in preparation for the Advanced Placement exam.	FLR	Foreign Language

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
069912	AP Japanese AP Japanese follows the current Advanced Placement syllabus in preparation for the Advanced Placement exam.	FLR	Foreign Language
069922	AP Latin: Vergil AP Vergil follows the current Advanced Placement syllabus in preparation for the AP exam.	FLR	Foreign Language
069920	AP Russian AP Russian follows the current Advanced Placement syllabus in preparation for the Advanced Placement exam.	FLR	Foreign Language
069930	AP Spanish Language AP Spanish follows the current Advanced Placement syllabus in preparation for the Advanced Placement exam.	FLR	Foreign Language
069915	AP French Literature A formal study of a representative body of literary texts in French for students who have advanced language skills. Follows the most current Advanced Placement syllabus.	FLR	Foreign Language
069935	AP Spanish Literature A formal study of a representative body of literary texts in Spanish for students who have advanced language skills. Follows the most current Advanced Placement syllabus.	FLR	Foreign Language
069925	AP Latin Literature AP Latin Literature follows the current AP syllabus in preparation for the AP exam. Students read, translate, analyze, and interpret Latin works.	FLR	Foreign Language
069951	Early Language Learning Arabic The study of a language and culture other than English in elementary school-Arabic.	N/A	Foreign Language
069952	Early Language Learning Chinese The study of a language and culture other than English in elementary school-Chinese.	N/A	Foreign Language
069953	Early Language Learning Japanese The study of a language and culture other than English in elementary school-Japanese.	N/A	Foreign Language
069954	Early Language Learning Italian The study of a language and culture other than English in elementary school-Italian.	N/A	Foreign Language
069955	Early Language Learning German The study of a language and culture other than English in elementary school-German.	N/A	Foreign Language
069956	Early Language Learning Hebrew The study of a language and culture other than English in elementary school-Hebrew.	N/A	Foreign Language
069957	Early Language Learning French The study of a language and culture other than English in elementary school-French.	N/A	Foreign Language

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
069958	Early Language Learning Spanish The study of a language and culture other than English in elementary school-Spanish.	N/A	Foreign Language
069959	Early Language Learning Swahili The study of a language and culture other than English in elementary school-Swahili.	N/A	Foreign Language
069960	Early Language Learning Russian The study of a language and culture other than English in elementary school-Russian.	N/A	Foreign Language
069961	Early Language Learning Latin The study of a language and culture other than English in elementary school-Latin.	N/A	Foreign Language
069962	Early Language Learning Greek The study of a language and culture other than English in elementary school-Greek.	N/A	Foreign Language
069963	Early Language Learning American Sign Language The study of a language and culture other than English in elementary school-American Sign Language.	N/A	Foreign Language

HEALTH AND PHYSICAL EDUCATION SECTION

Table 9. Health Education Codes (26xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
260101	Health Education Educational activities that promote understanding, attitudes, and practices consistent with individual, family, and community health needs.	HTH	—
260150	Substance Abuse Prevention Subject matter and learning experiences which address drug, alcohol, and tobacco abuse situations including prevention, intervention, discipline, and community resources available to the pupil and to the family.	HTH	—
260200	Safety/First Aid/CPR Subject matter and learning experiences concerned with developing students' awareness and understanding of hazards of every day living, and the knowledge, habits, attitudes, and skills which will enable them to function at an optimum level in the prevention and care of injury situations.	HTH	—
260410	Sports Medicine Educational activities concerned with the effects of sports and exercise on health and fitness and with the prevention and treatment of athletic injuries.	HTH	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
269999	Other Health A course that is given for High School credits to be applied toward the diploma, but that is different in scope from any of the other SUBJECT CODES described above.	HTH	—

Table 10. Physical Education Codes (08xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
080300	Physical Education A comprehensive subject area which incorporates fundamental motor skills, body control and balance, physical fitness, leisure sports and games skills, cognitive skills, as well as stress management skills.	PHE	—
080405	Lifetime Sports Activities taught throughout the school life with emphasis on learning experiences that can be turned into healthful lifetime skills.	PHE	—
080505	Adapted Physical Education Adapted Physical Education is specially designed instruction in physical education. According to federal law, physical education means the development of (a) physical and motor fitness; (b) fundamental motor skills and patterns; and (c) skills in aquatics, dance, and individual and group games and sports.	PHE	—
080900	Outdoor Physical Education A variety of outdoor leisure and sports activities, such as, fishing, archery, nature study, boating, backpacking, and similar pursuits that enhance students physical health and their understanding of the natural world.	PHE	—
080999	Other Physical Education Course Other Physical Education course for which high school credit can be earned that is different in scope and content from any of the other courses described above.	PHE	—

MATHEMATICS SECTION

Table 11. Elementary and Middle School Level Mathematics Codes (11xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
The following four courses do not earn high school mathematics credit.			
110003	Mathematics K-3 Instruction provided by a teacher to multiple groups of students rather than in a self-contained classroom setting. Includes content in the preK-3 portion of Ohio's academic content standards for mathematics.	N/A	Mathematics
110150	Mathematics 4-6 Includes content in the 4-6 portion of Ohio's academic content standards for mathematics.	N/A	Mathematics
110175	Mathematics 7-8 Includes content in the 7-8 portion of Ohio's academic content standards for mathematics.	N/A	Mathematics
110050	Advanced Mathematics/Pre-Algebra 6-8 (not for high school credit) Optional program that accelerates completion of the K-8 program and prepares students to enroll in high school level courses prior to grade 9.	N/A	Mathematics

Table 12. High School Level Mathematics Codes (11xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
Topic-Focused Mathematics Course Sequence: A four-year program or sequence of courses that address high school level content through topic-focused, discrete courses.			
110301	Algebra I In-depth study of algebraic concepts and processes to represent and solve problems that involve variable quantities. Includes using and relating graphical and symbolic representations and techniques.	MTH	Mathematics
111200	Geometry In-depth study of two and three-dimensional geometry including representing problem situations using geometric models, deductive reasoning, and geometry from an algebraic perspective.	MTH	Mathematics
110302	Algebra II Further study of algebraic concepts and processes such as matrices, vectors, and logarithmic and trigonometric functions.	MTH	Mathematics
110099	Advanced Mathematics The study of advanced topics in functions, algebra, geometry, and data analysis including the conceptual underpinnings of calculus.	MTH	Mathematics

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
Integrated Mathematics Course Sequence: A four-year program or sequence of courses that address the content in the grades 9-12 portion of Ohio's academic content standards using an integrated approach. All content standards, e.g., algebra, geometry, and data analysis, are included in each course.			
110010	Integrated Mathematics I The first course in a four-year sequence which addresses the grades 9-12 portion of Ohio's academic content standards for mathematics using an integrated approach.	MTH	Mathematics
110020	Integrated Mathematics II The second course in a four-year sequence that extends understanding of and addresses new content in algebra, geometry, data analysis, and probability.	MTH	Mathematics
110030	Integrated Mathematics III The third course in a four-year sequence that expands the study of algebra, geometry, data analysis, probability, and/or discrete mathematics to include greater depth of understanding and application.	MTH	Mathematics
110040	Integrated Mathematics IV The fourth course in a four-year sequence that addresses advanced content in algebra, geometry, data analysis, probability, discrete mathematics, and/or conceptual underpinnings of calculus.	MTH	Mathematics
Applied Mathematics Course Sequence: Three-year program or sequence of courses that addresses high school level content through concrete models and real-world situations and with less emphasis on symbol-manipulation and formal mathematical structure. See Program Model A for mathematics on the ODE website for description of applications driven mathematics.			
110480	Applied Algebra Includes courses with an algebra focus such as Basic Algebra, Informal Algebra, or Applied Algebra.	MTH	Mathematics
110490	Applied Geometry Includes courses with a geometry focus such as Basic Geometry, Informal Geometry, or Applied Geometry.	MTH	Mathematics
110500	Applied Mathematics Includes new, high school level content with an emphasis on application that expands the study of algebra, geometry, data analysis, probability, and/or discrete mathematics.	MTH	Mathematics

Table 13. Additional High School Level Mathematics Codes (11xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
111950	Intervention Mathematics (high school credit optional in grades 9-12, not for high school credit below grade 9) Course designed specifically as intervention for students who have taken and not yet reached the proficient standard on the Ohio Graduation Test for mathematics. Prepares students to retake the test, includes little or no new significant content, and is remedial in nature.	MTH	Mathematics
110190	Transition to High School Mathematics (high school credit optional in grades 9-12, not for high school credit below grade 9) Course designed specifically as intervention for students who enter grade 9 not ready for high school level mathematics courses. Use this code for courses that contain little or no new high school level content, such as pre-algebra, general mathematics, business mathematics and consumer mathematics courses based on the benchmarks and indicators found in the grades 6-8 portion of the Ohio Academic Content Standards.	MTH	Mathematics
111300	Discrete Mathematics The study of mathematical properties of sets and systems that have a countable number of elements including applications of systematic counting techniques and algorithmic thinking to represent, analyze, and solve problems.	MTH	Mathematics
111600	Trigonometry In-depth study of trigonometric and circular functions including modeling, graphing, and connecting to polar coordinates, complex numbers, and series.	MTH	Mathematics
111850	Transition to College Mathematics A course designed for students in grades 11-12 making a transition to a college preparatory program. Content includes new topics and revisits some previously addressed topics with increased emphasis on symbol manipulation and mathematical structure.	MTH	Mathematics
111500	Probability and Statistics In-depth study of probability, data analysis, and statistics including applying the concept of random variables to generate and interpret probability distributions, transforming data to aid in interpretation and prediction, and testing hypotheses using appropriate statistics.	MTH	Mathematics
119550	AP Statistics Based upon most current Advanced Placement program syllabus and prepares students for Advanced Placement examination.	MTH	Mathematics
110600	Calculus A formal study of topics from calculus that is not associated with the Advanced Placement Program. Includes the study of limit, series, and differentiation and integration.	MTH	Mathematics

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
119930	AP Calculus AB Based upon most current Advanced Placement program syllabus for Calculus AB and prepares students for Advanced Placement examination.	MTH	Mathematics
119960	AP Calculus BC Based upon most current Advanced Placement program syllabus for Calculus BC and prepares students for Advanced Placement examination.	MTH	Mathematics
119999	Other Mathematics Course High school level elective course that addresses advanced mathematical topics. Course Other mathematics course for which high school credit can be earned that is different in scope from any of the other SUBJECT CODES described above. Course that address concepts and skills below the 9-12 portion of Ohio's academic content standards for mathematics should be coded as 119950 Intervention Mathematics.	MTH	Mathematics

SCIENCE SECTION

Table 14. Science Codes (13xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
132110	Science (PreK-3) Early childhood science course for grades preK-3 which enables all students to develop standards-based knowledge and skills. Course includes changes on the earth and in the sky, living and nonliving environmental resources, rocks and soil, sky and earth cycles; characteristics and diversity of plants and animals, habitats, interactions between living things and their environment, interdependence and survival of plants and animals in Ohio, heredity; characteristics of objects and how they move, forces, physical interactions and changes, sources of energy, light and sound; natural or manmade objects, tools and materials, building/using technology, purpose, process and effects of science and technology; design process; different ways people learn about science, science in all societies, the nature of science investigation; measurement, tools and safety; ethical practices; scientific inquiry involving wondering, questioning, investigating, and communicating.	N/A	Science

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
132120	Science (4-6) Middle childhood science course for grades 4-6 which enables all students to develop standards-based knowledge and skills. Course includes rocks, weather, erosion, the Earth and it's place in the solar system; diversity of animal classifications and adaptations, plant classifications and adaptations, ecosystems; forces and motion, physical and chemical changes in matter, thermal and electric energy and energy transfer; renewable and nonrenewable resources ,helpful and harmful results, technology and human lives, design processes, technology and the environment; documentation of science investigations, careers in science, thinking scientifically in daily life; using results and data, explanation of observations and investigations, methods of investigation, facts and theories; safely conducting investigations, measuring and collecting, formulating conclusions, and communicating findings.	N/A	Science
132130	Science (7-8) Middle childhood science course for grades 7-8 which enables all students to develop standards-based knowledge and skills. Course includes rocks and minerals, weather and climate, space, plate tectonics, theories related to the changes of the Earth's surface; cells, reproduction, diversity and factors of ecosystems, similarities and differences among species, survival of species; chemical and physical changes, nature of energy, conservation of matter and energy, forces and motion, waves; technological design and influences on the quality of life, abilities to do technological design, ethical issues of technology, design solutions, history and relationships between culture, society and technology; skills of scientific inquiry, science practiced in everyday life, validity of scientific experiments, ethical practices, describing and explaining in science; conducting safe investigations using proper tools, applying mathematics skills, evaluating and analyzing variables of data, and drawing valid conclusions based on evidence.	N/A	Science
132212	Integrated Sciences I: Physical Sciences High school science course that contributes to the Ohio Graduation Test and develops standards-based knowledge and skills. Course includes atoms, chemical reactions, physical properties, mixtures and solutions, laws of motion, forces, energy, waves, historical perspectives and emerging issues; processes within and on the Earth, Earth's history through geologic evidence, resources; relationship between technology and science; diversity of scientific investigations, scientific theories, scientific literacy, scientific conclusions, and modeling investigations.	SCI	Science

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
132214	Integrated Sciences II: Biological Sciences High school science course that contributes to the Ohio Graduation Test and develops standards-based knowledge and skills. Course includes cells, genetics and DNA, diversity of life, ecology, biological evolution, historical perspectives and emerging issues; processes within and on the Earth, Earth's history through geologic evidence, resources; scientific advances and emerging technologies; nature of science inquiry, ethics in science, science and careers, and modeling investigations.	SCI	Science
132216	Integrated Sciences III: Environmental Sciences High school science course to develop standards-based knowledge and skills. Course includes interactions between humans and the Earth; ecosystems, environmental factors, biological evolution, populations, diversity; matter and energy, relationships; human interactions with science and technology, understanding technology; research, science and society; application of science processes, and techniques and research.	SCI	Science
132900	Intervention Science High school science course, which includes little or no new content from courses previously taken by students who have taken but have not yet successfully passed the Ohio Graduation Test. The variety of standards-based instruction and assessment strategies used in this course is appropriate to assist student preparation for the Ohio Graduation Test.	SCI	Science
132220	Physical Sciences High school science course that contributes to the Ohio Graduation Test and develops standards-based knowledge and skills. Course includes atoms, chemical reactions, physical properties, mixtures and solutions, laws of motion, forces, energy, waves, historical perspectives and emerging issues; relationship between technology and science; diversity of scientific investigations, scientific theories, scientific literacy, scientific conclusions, and modeling investigations.	SCI	Science
132230	Biological Sciences High school science course that contributes to the Ohio Graduation Test and develops standards-based knowledge and skills. Course includes cells, genetics and DNA, diversity of life, ecology, biological evolution, historical perspectives and emerging issues; scientific advances and emerging technologies; nature of science inquiry, ethics in science, science and careers, and modeling investigations.	SCI	Science

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
132350	Environmental Sciences High school science course to develop standards-based knowledge and skills. Course includes interactions between humans and the Earth; ecosystems, environmental factors, biological evolution, populations, diversity; matter and energy, relationships; human interactions with science and technology, understanding technology; research, science and society; application of science processes, and techniques and research.	SCI	Science
132240	Earth and Space Sciences High school science course to develop standards-based skills and concepts in the earth and space sciences. Course includes energy in the Earth system, geochemical cycles, origin and evolution of the Earth system, and origin and evolution of the universe.	SCI	Science
130301	Chemistry The study of the composition, structure, properties of, and changes in matter, including the accompanying energy phenomena.	SCI	Science
130302	Physics The study of matter and energy, including the study of phenomena associated with mechanics, heat, wave motion, sound, electricity and magnetism, light, and atomic and nuclear structure.	SCI	Science
132330	Advanced Biology Advanced high school course that contributes to competencies beyond the Ohio Graduation Test. Course develops specialized content to extend connections, depth, and detail of biology, including concepts in anatomy, physiology, ecology, behavior, evolution, genetics, cell biology, microbiology, diversity, growth, and human biology.	SCI	Science
132326	Advanced Chemistry Advanced high school course that contributes to competencies beyond the Ohio Graduation Test. Course develops specialized content to extend connections, depth, and detail of chemistry, including concepts in inorganic, organic, analytical, physical and biochemistry.	SCI	Science
132340	Advanced Earth and Space Sciences Advanced high school course that contributes to competencies beyond the Ohio Graduation Test. Course develops specialized content to extend connections, depth, and detail of the major concepts and principles of earth and space sciences, astronomy, oceanography, meteorology, geology, and natural resources.	SCI	Science
132325	Advanced Physics Advanced high school course that contributes to competencies beyond the Ohio Graduation Test. Course develops specialized content to extend connections, depth, and detail of physics, including concepts in mechanics, electricity, magnetism, thermodynamics, waves, optics, atomic and nuclear physics, radioactivity, relativity, and quantum mechanics.	SCI	Science

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
139903	AP Biology Course based on the current program syllabus for Advanced Placement Biology and prepares students for the Advanced Placement examination provided by the College Board.	SCI	Science
139905	AP Physics B Course based on the current program syllabus for Advanced Placement Physics B and prepares students for the Advanced Placement examination provided by the College Board.	SCI	Science
139940	AP Physics C - Electricity & Magnetism Course based on the current program syllabus for Advanced Placement Physics C: Electricity & Magnetism and prepares students for the Advanced Placement examination provided by the College Board.	SCI	Science
139950	AP Physics C – Mechanics Course based on the current program syllabus for Advanced Placement Physics C: Mechanics and prepares students for the Advanced Placement examination provided by the College Board.	SCI	Science
139906	AP Chemistry Course based on the current program syllabus for Advanced Placement Chemistry and prepares students for the Advanced Placement examination provided by the College Board.	SCI	Science
139930	AP Environmental Science Course based on the current program syllabus for Advanced Placement Environmental Science and prepares students for the Advanced Placement examination provided by the College Board.	SCI	Science
139997	Other Science A science course offered in high school that contains subject matter that aligns with grades 9 and 10 science standards, but is different in scope than any other subject codes described in this Appendix.	SCI	Science
139998	Other Advanced Science An advanced science course offered in high school that contains subject matter that aligns with grades 11 or 12 science standards, but is different in scope than any other advanced science codes described in this Appendix.	SCI	Science
139999	Other Science A course that is offered for high school credit to be applied toward the diploma, but that is different in scope from any of the other SUBJECT CODES described above. (Note- this course will be deleted in FY11- during FY10, all courses that used this code previously should be recoded with another subject code.)	SCI	Science

SOCIAL STUDIES SECTION

Table 15. Social Studies Codes (15xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
151209	Social Studies (K-3) Social studies instruction offered primarily for students in grades K-3.	N/A	—
151210	Social Studies (4-6) Social studies instruction offered primarily for students in grades 4-6.	N/A	—
151201	Social Studies (7-8) Integrated study using various social studies disciplines. (for grades 7-8)	N/A	—
150110	Anthropology (7-8) The study of the physical, social and cultural development of humans. (for grades 7-8)	N/A	—
150610	Economics (7-8) The study of how society uses its resources to satisfy the desires of its citizens for goods and services. (for grades 7-8)	N/A	Economics
150701	Geography (7-8) The study of spatial aspects of human existence. (for grades 7-8)	N/A	Geography
150305	Government (7-8) The study of institutions and processes through which decisions are made for a society. (for grades 7-8)	N/A	Civics and Government
150807	History (American) (7-8) The study of America's past. (for grades 7-8)	N/A	History
152310	History (Integrated) (7-8) The integrated study of American history and world history. (for grades 7-8)	N/A	History
152410	History (Regional) (7-8) The study of a region's past. (for grades 7-8)	N/A	History
150888	History (World) (7-8) The study of the world's past. (for grades 7-8)	N/A	History
151131	Psychology (7-8) The study of the human mind and its influence on behavior. (for grades 7-8)	N/A	—
150210	Social Psychology (7-8) The study of individual human behavior in groups. (for grades 7-8)	N/A	—
151207	Sociology (7-8) The study of social relationships, institutions, and group behavior in societies. (for grades 7-8)	N/A	—
150100	Anthropology The study of the physical, social and cultural development of humans.	SOC	—
150600	Economics The study of how society uses its resources to satisfy the desires of its citizens for goods and services.	SOC	Economics

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
150700	Geography The study of spatial aspects of human existence.	SOC	Geography
150300	Government The study of institutions and processes through which decisions are made for a society.	SOC	Civics and Government
150308	Government/Economics The study of institutions and processes through which decisions are made for a society and the study of how that society uses its resources to satisfy the desires of its citizens for goods and services.	SOC	Civics and Government
150810	History (American) The study of America's past.	SOC	History
152300	History (Integrated) The integrated study of American history and world history.	SOC	History
152400	History (Regional) The study of a region's past.	SOC	History
150890	History (World) The study of the world's past.	SOC	History
152100	Integrated Social Studies Integrated study using various social studies disciplines.	SOC	—
150400	Intervention Social Studies Remedial study in preparation for the Citizenship Proficiency Test or the Ohio Graduation Test with little or no significant new content.	SOC	—
151121	Psychology The study of the human mind and its influence on behavior.	SOC	—
151205	Social Psychology The study of individual human behavior in groups.	SOC	—
151300	Sociology The study of social relationships, institutions, and group behavior in societies.	SOC	—
152810	AP European History The study of Europe's past. Follows the current Advanced Placement syllabus.	SOC	History
159960	AP Government & Politics (Comparative) The comparative study of the institutions and processes through which decisions are made for societies. Follows the current Advanced Placement syllabus.	SOC	Civics and Government
159950	AP Government & Politics (United States) The study of institutions and processes through which decisions are made for the United States. Follows the current Advanced Placement syllabus.	SOC	Civics and Government
152820	AP Human Geography The study of spatial aspects of human existence. Follows the current Advanced Placement syllabus.	SOC	Geography

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
159930	AP Macroeconomics The study of the functioning of entire economies. Follows the current Advanced Placement syllabus.	SOC	Economics
159940	AP Microeconomics The study of the behavior of individual households, firms and markets. Follows the current Advanced Placement syllabus.	SOC	Economics
152500	AP Psychology The study of the human mind and its influence on behavior. Follows the current Advanced Placement syllabus.	SOC	—
152600	AP U.S. History The study of America's past. Follows the current Advanced Placement syllabus.	SOC	History
152700	AP World History The study of the world's past. Follows the current Advanced Placement syllabus.	SOC	History
159999	Other Social Studies Electives utilizing the social studies (including community service courses per ORC 3313.60.5).	SOC	—

TECHNOLOGY SECTION

Table 16. Computer Science Codes (29xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
The following courses do not earn high school technology credit. This instruction may also be provided by a teacher to multiple groups of students rather than in a self-contained classroom setting. The K-8 content across Ohio's Technology standards defines achievement in meeting the No Child Left Behind 8 th Grade Technology Literacy Requirement. Instruction is most effective when integrated with curricular components of other academic content areas.			
290035	Computer/Multimedia Literacy K-3 Includes content in the K-3 portion of Ohio's academic content standards for technology that focuses on the use of educational technology for learning.	N/A	—
290040	Computer/Multimedia Literacy 4-6 Includes content in the 4-6 portion of Ohio's academic content standards for technology that focuses on the use of educational technology for learning.	N/A	—
290045	Computer/Multimedia Literacy 7-8 Includes content in the 7-8 portion of Ohio's academic content standards for technology including keyboarding, word processing, productivity, communication and information tools.	N/A	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
Computer Science codes include computer/multimedia literacy, software, Internet, systems/networking and programming. All courses should be based on advanced topics aligned with the 9-12 section of the Ohio Technology academic content standards. Credit cannot be given for concepts below 9th – 12th grade.			
290050	Computer/Multimedia Literacy Course focuses on advanced concepts in 9-12 portion of Ohio's technology academic content standards. Instruction is most effective when integrated or linked to other content areas.	TEC	—
290100	Technology-Productivity Tools Course focuses on advanced concepts in 9-12 portion of Ohio's technology academic content standards that increase personal productivity and manage information. Instruction is most effective when integrated or linked to other academic areas.	TEC	—
290110	Technology-Communication Tools Course focuses on advanced concepts in the 9-12 portion of Ohio's technology academic content standards including identifying purpose, audience and communication strategy. Instruction is most effective when integrated or linked to other academic content areas.	TEC	—
290120	Technology-Problem-Solving Tools Course focuses on advanced concepts in the 9-12 portion of Ohio's technology academic content standards including inquiry/problem-solving skills and technology tools. Instruction is most effective when integrated or linked to other academic content areas.	TEC	—
290130	Internet Searching Course focuses on advanced concepts in the 9-12 portion of Ohio's technology academic content standards including Internet search strategies, search engine ranking methods and Web site evaluation.	TEC	—
290075	Technology: Electronic Resources Course focuses on advanced concepts in the 9-12 portion of Ohio's technology academic content standards including information literacy concepts and use of technology tools to conduct research. Topics include use of Internet and other electronic information resources.	TEC	—
290140	Technology and Ethics Course focuses on advanced concepts in the 9-12 portion of Ohio's technology academic content standards and library guidelines including copyright, intellectual property, biotech and other current ethical concerns.	TEC	—
290150	Computer Graphics Course includes design techniques used to generate computer graphics. Topics may include use of tools to draw, import, edit, create, animate images, photos, original artwork, etc.	TEC	—
290200	Computer Science Course includes study and use of programming languages, i.e., BASIC, COBOL, DOS, Visual BASIC, C++, HTML, XML, MSDN, etc. Topics also include operating systems, servers, networks, etc.	TEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
290310	AP Computer Science A An advanced study of programming methodology with an emphasis on problem solving and algorithm development. Also includes study of data structures and abstraction, but not to the extent as covered in Computer Science AB. Follows the current Advanced Placement syllabus.	TEC	—
290320	AP Computer Science AB Includes all topics of Computer Science A, as well as a more formal and more in-depth study of algorithms, data structures and data abstraction. Follows the current Advanced Placement syllabus.	TEC	—
290160	Web Site Development Course includes Web site design, posting/removing Web sites to/from Web server and Web programming HTML, XML, etc. Course should cover Universal Design and other accessibility methods.	TEC	—
290165	Advanced Web Site Development Course should include advanced Web programming and applications, Universal Design and other accessibility methods.	TEC	—
290170	Networking Course includes operating systems, printers/print servers, network configuration and servers, etc.	TEC	—
290180	Computer Repair Course includes troubleshooting, repair, system/network reconfiguration, help desk practices, etc.	TEC	—
299999	Other Computer Technology A course that is given for High School credit to be applied toward the diploma, but that is different in scope from any of the other SUBJECT CODES described above.	TEC	—

Table 17. Information Literacy Codes (20xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
The following courses do not earn high school technology credit. This instruction may also be provided by a teacher to multiple groups of students rather than in a self-contained classroom setting. The K-8 content across Ohio's Technology standards defines achievement in meeting the No Child Left Behind 8th Grade Technology Literacy Requirement. Instruction is most effective when integrated with curricular components of other academic content areas.			
200910	Information Literacy K-3 Instruction that includes content in the K-3 portion of Ohio's technology academic content standards and library guidelines.	N/A	—
200915	Information Literacy 4-6 Instruction that includes content in the 4-6 portion of Ohio's technology academic content standards and library guidelines.	N/A	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
200920	Information Literacy 7-8 Instruction that includes content in the 7-8 portion of Ohio's technology standards and library guidelines including Internet searching, evaluation of Web sites and other electronic resources.	N/A	—
Information literacy codes focus on acquisition, interpretation, and dissemination of information. All courses should be based on advanced topics aligned with the 9-12 section of the Ohio Technology academic content standards and Library Guidelines. Credit can not be given for concepts below 9th – 12th grade.			
200700	Library Science Course focuses on how information is organized, accessed, and evaluated, including use of information management systems in school, public, academic, and government libraries.	TEC	—
200905	Information Literacy Instruction focuses on recognizing the need for information and developing the skills to locate, evaluate and utilize the information. Learning experiences include information retrieval and critical thinking skills that enable students to acquire, interpret, evaluate, create, and communicate information. Information sources include print, nonprint, electronic, Internet-based resources accessed via the school library, school district, Internet, statewide/national networks, and other providers.	TEC	—

Table 18. Technology Education Codes (10xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
The following courses do not earn high school technology credit. This instruction may also be provided by a teacher to multiple groups of students rather than in a self-contained classroom setting. The K-8 content across Ohio's Technology standards defines achievement in meeting the No Child Left Behind 8 th Grade Technology Literacy Requirement. Instruction is most effective when integrated with curricular components of other academic content areas.			
102285	Technological Literacy K-3 Instruction that includes content in the K-3 portion of Ohio's academic content standards for technology.	N/A	—
102290	Technological Literacy 4-6 Instruction that includes content in the 4-6 portion of Ohio's academic content standards for technology.	N/A	—
102295	Technological Literacy 7-8 Instruction that includes content in the 7-8 portion of Ohio's academic content standards for technology.	N/A	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
Technology Education: A comprehensive study of the knowledge and processes necessary in designing, making, developing, producing, using, managing, and assessing of technological systems and products. Dimensions of technology include assessing impacts and consequences of technology, nature and history of technology, and connections. Technological systems and products are those systems and products that change the world around us to satisfy our needs and wants. In particular Technology Education focuses on the systems and products of the energy/power/transportation, manufacturing, construction, communication, and bio-related/chemical fields. These activities may take place in thematic units at the elementary level, general technology courses at the middle and high school levels, specific high school systems courses, Tech Prep and Pathways courses at the high school level, and modules and problem-based learning integrated with mathematics, science, language arts, social studies and arts teams at all levels.			
102300	Technology Education Comprehensive action-based courses concerned with the evolution, utilization, and significance of technology and its impact on industry, including its organization, personnel, systems, techniques, resources, products, and socio cultural aspects.	TEC	—
107450	Foundations of Technology Prepares students to understand and apply technological concepts and processes that are the cornerstone for the high school technology program. Group and individual activities engage students in creating ideas, developing innovations and engineering practical solutions. Technology content, resources and laboratory/classroom activities apply student applications of science, mathematics and other school subjects in authentic situations. This course will focus on the three dimensions of technological literacy: knowledge, ways of thinking and acting, and capabilities, with the goal of students developing the characteristics of technologically literate citizens.	TEC	—
101700	Research and Development The study of industrial-technical problems, including provisions for individual or group investigations of problems and opportunities to evaluate their solutions by designing, constructing, and testing products.	TEC	—
101720	Design Course includes design topics from the 9-12 portion of Ohio's technology academic content standards; including identifying and producing a product or system using a design process and evaluating the final solution, and communicating findings; recognizing the role of teamwork in engineering design and of prototyping in the design process; and understanding and applying research, development, and experimentation to problem-solving.	TEC	—
101730	Issues and Problems in Technology The study of themes concerning technology, society, and the environment.	TEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
Construction Technology Systems: A comprehensive study of the knowledge and processes in designing, making, developing, producing, using, managing, and assessing of technological systems and products to build structures on site. In particular courses that are part of the construction technology systems focus on project planning, architectural design and drafting, site preparation, building the structure, and maintaining the structure.			
100100	Construction The study of the technology and the socioeconomic contributions of those industries concerned with residential, civic industrial, civil, and transportation structures.	TEC	—
100800	Home Mechanics The study of the tools, materials, and processes involved in the upkeep and repair of the home, its equipment and devices.	TEC	—
Manufacturing Technology Systems: A comprehensive study of the knowledge and processes in designing, making, developing, producing, using, managing, and assessing of technological systems and products in manufacturing facilities. In particular courses that are part of manufacturing technology systems focus on mechanical design and drafting, materials, and processes (including woods, metals, plastics), production, robotics, and automation systems, and specific trades/crafts			
101300	Manufacturing The study of the technology and the socioeconomic contributions of industries concerned with the creation of durable consumer products.	TEC	—
101350	Robotics Application of processes and knowledge in the design, development, and use of systems to manage and control devices. Products of student work in robotics may be descriptive and/or functional models of technology applications across all systems areas.	TEC	—
101800	Service Industries The study of the technology of industries concerned with the maintenance and repair of consumer and/or industrial products.	TEC	—
101900	Woods Processes Information and skills concerned with woods, including various manufactured wood products, focusing on the technology employed in the manufacture and construction of products using woods and related factors such as occupations, economics, and consumer information.	TEC	—
101410	Metals Processes Information and skills concerned with metals including the products manufactured from metals and the technology employed in the production, processing, and use of metals, as well as related factors such as occupations, economics, and consumer information.	TEC	—
101500	Plastics Information and skills concerned with the production, processing, and use of plastics, composites and related factors such as occupations, economics, and consumer information.	TEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
100200	Industrial Crafts Information and skills concerned with handcrafts and the craft industry, including its tools, materials, processes, products, and occupations.	TEC	—
Communication Technology Systems: A comprehensive study of the knowledge and process in designing, making, developing, producing, using, managing, and assessing of technological systems to products for transferring graphic and electronic messages. Computer modeling and information technology applications are critical to all technology systems areas. In particular courses that are part of communication technology systems focus on existing and emerging information technologies for encoding, transmitting, receiving, storing, retrieving, and decoding of graphic and electronic messages.			
100300	Drafting Information and skills concerned with conveying ideas or illustrations graphically through drawings, charts, sketches, maps, and graphs, and the related factors such as the role of drafting in history and industry.	TEC	—
100401	Electricity/Electronics Information and skills concerned with electrical energy including theory, applications, and control as it relates to electrically powered equipment, to various kinds of communications equipment, and to related factors such as occupations, economics, and consumer information.	TEC	—
100700	Graphic Arts The study of information and skills concerned with graphic reproduction, as well as related factors such as occupations, economics, and consumer information.	TEC	—
102000	Communications Provides an introduction to technical communication systems and processes. Students use a variety of technologies and media to create, implement, and evaluate a network to solve a communication problem.	TEC	—
102500	Industrial Computer Applications Experiences with computer applications across the technological systems areas. Selected activities covering computer hardware, software, and interface device applications to develop understanding of industrial uses of computers.	TEC	—
Energy/Power/Transportation Technology Systems: A comprehensive study of the knowledge and process in designing, making, developing, producing, using, managing, and assessing of technological systems to produce products for the transmission of energy and power, and the transportation of goods and people. In particular technology courses focus on energy and power sources or devices, the transformation of energy and power from one form to another, the transmission of energy and power from one form to another, and the sale use of power. In addition transportation focuses on the systems and products used to transport goods and people.			
101610	Power Mechanics Information and skills concerned with the various forms of power, including its generation, transmission, and utilization.	TEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
102100	Energy/Power/Transmission Beginning-level course designed to provide a conceptualized study of basic machines. Students obtain a basic understanding and develop skills needed to identify, build, maintain, test, and develop machines.	TEC	—
Bio-Related and Chemical Technology Systems: A comprehensive study of the knowledge and process in designing, making, developing, producing, using, managing, and assessing of technological systems to produce products with bio-related and chemical applications. In particular technology courses focus on practical application of biological organism and chemical processes to make or modify products, the production process techniques related to agriculture, chemical, and medical technology products, and the human interface with technology in managing the artificial and natural environment.			
103050	Bio-Related and Chemical Technology Systems Comprehensive study of the knowledge and process in designing, making, developing, producing, using, managing, and assessing of technological systems to produce products with bio-related and chemical applications.	TEC	—

CAREER-TECHNICAL EDUCATION SECTION

WORKFORCE DEVELOPMENT SECTION

Table 19. Career Field 01: Environmental & Agricultural Systems Codes (01xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
010001	Environmental and Agricultural Science A sequence of introductory courses designed to deliver basic knowledge and skills across all disciplines and industries associated with agriculture, horticulture, mechanics, and natural resources. Communications, business principles and leadership skill development are essential to the program.	CTA	—
010150	Animal Bioscience A life science course that applies basic animal physiology and anatomy, animal health, animal nutrition, reproductive physiology and breeding systems, genetics and animal improvement to agronomic animals, companion animals and wildlife species. This is an activity driven course with an inquiry approach, providing a meaningful and relevant application of animal biology to post-secondary fields of study and 21st century careers in agriculture, food and natural resources.	CTA	—
010155	Plant Bioscience A life science course focusing on plants, soils, and their interaction in the environment and economy. The course applies basic plant physiology and anatomy, plant protection and health, reproductive biology in plants, influences in bioengineering, plant nutrition and disorders to agronomic, horticultural, and native plant species. This is an activity driven course with an inquiry approach, providing a meaningful and relevant application of plant biology to post-secondary fields of study and 21st century careers in agriculture, food and natural resources.	CTA	—
010201	Agricultural and Industrial Equipment Applies principles of engineering in power, construction technology gaining understanding of operation, maintenance, repair of power, electrical, hydraulic and mechanical systems. Communications, business principles and leadership skill development are essential.	CTA	—
010301	Agribusiness and Production Systems Applies principles of economics, business management and marketing in both an entrepreneur/manager and an employee role to the leadership, planning, developing and analyzing of business enterprises related to agriculture, food and natural resources.	CTA	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
010601	Horticulture Applies principles of plant anatomy, nutrition, reproduction, genetics, health and artistic design to production, management, processing and marketing of ornamental plants, landscapes and floral designs. Communications, business principles and leadership skill development are essential to the program.	CTA	—
010701	Natural Resource Management Applies science to management and protection of renewable and non-renewable resources; includes fundamentals of land use, watersheds, wildlife, fisheries and forestry. Communications, business principles and leadership skill development are essential to the program.	CTA	—
010901	Animal Science and Management Applies principles of animal anatomy, physiology, genetics, behavior and nutrition to the research and development, selection and reproduction, health, and management of animals in a domestic and/or natural environment.	CTA	—
011001	Food Science and Technology Applies principles of biology, chemistry and physics to the research and development, production, processing, and distribution of food products meeting quality assurance standards in a system that is safe and secure.	CTA	—
012000	Biotechnology for Food, Plant, and Animal Sciences Applies principles of chemistry, microbiology and genetics to plant and animal research. The focus of this research is to enhance the production and physical attributes of plants and animals, as well as to generate animal and plant products used today in transportation, manufacturing, medicine, food production and environmental protection.	CTA	—

Table 20. Career Field 02: Arts & Communications Codes (04xxxx, 17xxxx, 34xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
040001	Arts and Communication Foundation (Career Technical) The foundation course for the arts and communication cluster.	CTA, BUS	—
170700	Commercial Art Occupations Organized specialized learning experiences that include theory and laboratory as they relate to the creation, design, and execution of layouts and illustrations on various mediums including electronic.	CTA	—
170900	Commercial Photography Occupations Organized specialized learning experiences that include theory, laboratory, and studio work as each relates to all phases of camera uses and photographic processing.	CTA	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
171900	Graphic Occupations Specialized learning experiences that include theory, laboratory and shop work as they relate to all phases of layout, composition, presswork and binding, including flexography, lithography, photoengraving and other techniques.	CTA	—
340005	Visual Design and Imaging Programs that focus on the creation, design, and execution of layouts and illustrations on various mediums including electronic media and the theory and processes of image transfer, including offset, flexography, lithography, photoengraving and other techniques. Communications, business principles and leadership skill development related to the industry are essential to the program. Specialization areas include commercial art and graphic occupations.	CTA, TEC	—
340010	Principles of Arts and Communications A course focused on the fundamental principles and practices of image capture, audio and writing in Media Arts; creating and outputting illustrations for Visual Design and Imaging; and creating, interpreting and performing works for the Performing Arts all of which convey a message and stimulate thought. Business principles and leadership skill development related to the industry are essential to the program.	CTA	—
340015	Media Arts Programs that focus on the use of still and motion photography in journalism. Communications, business principles and leadership skill development related to the industry are essential to the program. Specialization areas include journalism, photography and digital media.	CTA	—
340020	Performing Arts Programs that focus on the creation, interpretation and performance of works that use auditory, kinesthetic, and visual phenomena to express ideas and emotions in various forms. Communications, business principles and leadership skill development related to the industry are essential to the program. Specialization areas include music, dance and theater.	CTA	—

Table 21. Career Field 03: Business & Administrative Services Codes (14xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
140001	Business and Management Foundation (Career Technical) The foundation course in the business and management cluster of occupations (which includes the career fields of business and administrative services, finance, information technology, marketing, and hospitality). Can be the foundation component of a career pathway design.	CTA, BUS	—
140050	Introduction to Business and Administrative Services This career field course is based upon the Business and Administrative Services Career Field Technical Content Standards and includes content that crosses all pathways of the career field. It is the basics course that leads to specialization in one of the career pathways of Administrative and Professional Support, Legal Management and Support, Medical Management and Support, and Management.	CTA, BUS, TEC	—
140075	Interdisciplinary Career Field Business Concepts This course addresses business content specific to the various career fields and is addressed in a contextual manner. Content is based on business competencies, including business process and computer applications, within the career field technical content standards for the career field that serves as the anchor class. The course must be correlated to an anchor course in any career field except business and administrative services, finance, marketing, or information technology.	CTA, BUS	—
140300	Administrative and Professional Support Based on a sequence of courses, students will be prepared for careers which support business operations through a variety of administrative duties including information and communication management, data processing and collection, and project tracking. Due to changes in technology, the skills required in administrative support careers have increased and correspond with that of a mid-level manager. Sample occupations within this pathway include: administrative assistant, customer service representative, executive assistant, office manager, and project coordinator.	CTA, BUS, TEC	—
140310	Legal Management and Support Based on a sequence of courses, students will be prepared for careers which facilitate legal operations through a variety of management and administrative duties. Employees in this field are found in law firms, courts, court reporting firms, legal departments of corporate businesses, and government regulatory agencies. Sample occupations within this pathway include: legal office manager, legal assistant, legal secretary, paralegal, court administrator, compliance analyst, regulatory analyst.	CTA, BUS, TEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
140320	Medical Management and Support Based on a sequence of courses, students will be prepared for careers which facilitate medical business operations, through a variety of management and administrative duties. Employees in this field are found in medical offices, hospitals, and insurance companies. Sample occupations within this pathway include: admissions specialists, benefits coordinators, medical billing specialists, medical records and health information technician, medical office manager, claims processor, and medical coding specialist.	CTA, BUS, TEC	—
140800	Business Management Based on a sequence of courses, students will be able to plan, organize, direct, and evaluate all or part of a business organization (including their own) through the allocation and use of financial, human and material resources. Activities in which they are engaged include project management, business analysis, quality control, scheduling, procurement and warehousing, and activities related to staffing. Sample occupations within this pathway include: business analyst, chief operations officer, district manager, master scheduler, project manager, purchasing manager, small business manager/owner, supervisor, human resources generalist/manager, labor relations, manager, recruiter, training manager.	CTA, BUS, TEC	—

Table 22. Career Field 04: Construction Technologies Codes (17xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
170003	Construction Foundations A one-year 9th and/or 10th grade course that is a component of a series of academic, technological, employability and occupational courses leading to a career major in the area of construction.	CTA	—
170005	Construction Technologies Combined with specialization competencies utilizing business and industry technical standards and a math, science, ELA, technology, and business process framework, develops technical literacy in construction systems leading to pathways in pre-construction and design, construction management, apprenticeship and specialization areas (e.g., carpentry, electrical, masonry, environmental control technologies, etc.) and post-secondary articulation.	CTA, TEC	—
170100	Environmental Control Technologies Utilizes industry standards and a math, science, ELA and technology framework to introduce concepts of installation, repair and maintenance of residential, commercial, and industrial air-conditioning systems.	CTA, TEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
171001	Carpentry Utilizes industry standards and a math, science, ELA and technology framework to introduce concepts of layout, construction and repair of residential and commercial structures.	CTA, TEC	—
171002	Electrical Trades Utilizes industry standards and a math, science, ELA and technology framework to introduce concepts of layout, assembly, installation, testing, and maintenance of electrical fixtures and apparatus, and the wiring used in electrical systems.	CTA, TEC	—
171003	Heavy Equipment (Construction) Classroom and practical work experiences concerned with the operation, maintenance and repair of heavy-duty construction equipment and the gasoline or diesel engines powering the equipment.	CTA, TEC	—
171004	Brick, Block and Cement Masonry Utilizes industry standards and a math, science, ELA and technology framework to introduce concepts of cutting, chipping and fixing in position of brick and concrete block.	CTA	—
171005	Interior Design Applications Utilizes industry standards and a math, science, ELA and technology framework to introduce concepts of the interior construction industry; including painting, wallpapering, flooring, tiling, drywall, trim, lighting and more.	CTA	—
171007	Plumbing and Pipefitting Utilizes industry standards and a math, science, ELA and technology framework to introduce concepts of layout, assembly, installation, alteration and repair of piping systems and related fixtures and fittings.	CTA, TEC	—
171011	Building and Property Maintenance Utilizes industry standards and a math, science, ELA and technology framework to introduce concepts of the physical structure of an office building, factory, apartment building, house, or similar structure in good repair.	CTA, TEC	—
171017	Building Technology Utilizing industry standards and a math, science, ELA and a technology framework introduces concepts across multiple areas of construction. Areas include carpentry, electrical trades, masonry, and plumbing and related technical topics.	CTA, TEC	—
171100	Custodial Services Utilizes industry standards and a math, science, ELA and technology framework to introduce concepts of layout, assembly, installation, testing, and maintenance of electrical fixtures and apparatus, and the wiring used in electrical systems.	CTA	—
171805	Construction – Design-Build Utilizes industry standards and a math, science, ELA and technology framework to introduce concepts of designing, planning, managing, building and maintaining the built environment.	CTA, TEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
171806	Construction – Management Classroom and laboratory experiences combining advanced academics and the skills and knowledge essential to the construction industry. Focus is on supervision, planning and management of the construction process. The program will follow the state TCP and culminate in an associate degree.	CTA, TEC	—
173601	Wood Product Technologies Utilizing business and industry, math, science and technology standards, introduces concepts of wood product materials and technologies; design and production of window frames, molding, trims and panels; and wood crafting skills including the design and manufacture of wood products such as furniture, moldings, trims, fixtures and cabinetry.	CTA, TEC	—

Table 23. Career Field 05: Education & Training Codes (09xxxx, 35xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
090011	Career Paths for the Teaching Professions Career major courses to prepare students for entry level, technical and professional career options within the teaching professions.	CTA	—
090201	Early Childhood Education and Care Preparation for employment in childcare services, child development, and early childhood education within the childcare and guidance industries.	CTA	—
350001	Introduction to Education and Training Provides options for students to explore Education and Training career field to allow students to pursue the career pathways.	CTA	—
350011	Teaching Professions Major career courses to prepare students for entry level, technical and professional career option within the teaching professions.	CTA	—
350201	Early Childhood Education Preparation for employment in childcare services, child development, and early childhood education within the childcare and guidance industries.	CTA	—

Table 24. Career Field 06: Engineering & Science Technologies Codes (17xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
171821	Computational Science and Engineering Combined with Engineering Technologies-Emerging (subject code 171815), utilizes business and industry technical standards and math, science and technology framework to introduce concepts of the utilization of mathematical formulas to serve as forecasting models across multiple industries in a problem-based format.	CTA, TEC	
171402	Power Transmission Utilizing business and industry technical standards and a math, science, ELA, technology and business process framework, develops technical literacy in erecting and maintaining power lines and circuits for transmission and distribution of electrical power, and assembling and erecting related equipment and structures.	CTA	—
171504	Telecommunications Utilizing business and industry technical standards and a math, science, ELA, technology and business process framework, develops technical literacy in the assembly, installation, operation, maintenance and repair of telecommunications equipment.	CTA, TEC	—
171807	Engineering Technologies – Design A combination of subject matter and experiences designed to offer skills and knowledge in the Design cluster. Program will follow the state TCP and culminate in an associate degree.	CTA, TEC	—
171808	Engineering Technologies – Process A combination of subject matter and experiences designed to offer skills and knowledge in the Process cluster. Program will follow the state TCP and culminate in an associate degree.	CTA, TEC	—
171809	Engineering Technologies – Product/Service A combination of subject matter and experiences designed to offer skills and knowledge in the Product/Service cluster. The program will follow the state TCP and culminate in an associate degree.	CTA, TEC	—
171815	Engineering Science Utilizing business and industry standards and a pre-calculus/trigonometry, science and technology framework introduces pre-engineering skills, problem-solving and critical thinking in the areas of introduction to engineering, principles of engineering, digital electronics, and engineering design and development in the Project Lead the Way model and leads to post-secondary articulation.	CTA, TEC	—
171816	Computer Integrated Manufacturing Combined with Engineering Science (171815), utilizes business and industry technical standards and a math, science, and technology framework to introduce concepts of pre-engineering related to robotic manufacturing in the Project Lead the Way model and leads to post-secondary articulation.	CTA, TEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
171817	Civil Engineering and Architecture Combined with Engineering Science (171815), utilizes business and industry technical standards and a math, science, and technology framework to introduce concepts of pre-engineering related to civil engineering and architecture in the Project Lead the Way model and leads to post-secondary articulation.	CTA, TEC	—
171818	Fuel Cell Technologies Combined with Engineering Technologies – Emerging (subject code 171815), utilizes business and industry technical standards and a math, science, and technology framework to introduce concepts of pre-engineering related to fuel cell types, materials, function, and design in the Project Lead the Way model and leads to post-secondary articulation.	CTA, TEC	—
171819	Materials Joining Technologies Combined with Engineering Technologies – Emerging (subject code 171815), utilizes industry technical standards and a math, science, and technology framework to introduce concepts of pre-engineering related to robotics, material science and nanofabrication in welding in the Project Lead the Way model and leads to post-secondary articulation.	CTA, TEC	—
172000	Chemical Laboratory Assisting Specialized classroom and laboratory experiences organized to prepare a person to perform the quantitative, qualitative, and analytical analysis of human or naturally occurring substances in a chemical laboratory.	CTA, TEC	—
172004	Industrial Lab Assisting Specialized classroom and laboratory experiences organized to prepare a person to perform the quantitative, qualitative and analytical analysis of human or naturally occurring substances in an industrial laboratory.	CTA, TEC	—
175000	Biomedical Science Utilizing business and industry, mathematics, science and technology standards, introduces concepts of biomedical science including principles of the biomedical sciences, human body systems, medical interventions, and science research. This is a Project Lead the Way program only.	CTA	—
170007	Engineering Systems Combined with specialization competencies utilizing business and industry technical standards and a math, science, ELA, technology and business process framework, develops technical literacy in engineering and science leading to pathways in the engineering and science career field.	CTA, TEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
171600	Energy Science Utilizing industry standards and a math, science, ELA and a technology framework introduces concepts of solar, wind, fossil fuel, nuclear, geothermal, biomass, and fuel cell energy and leads to post-secondary.	CTA, TEC	—
171810	Engineering Technology Combined with the first course in the pathway and utilizing business and industry technical standards and a math, science, ELA, technology framework, introduces concepts of engineering related to mechanical, electrical and industrial engineering and leads to post-secondary education.	CTA, TEC	—
171820	Biotechnical Engineering Combined with Engineering Science (subject code 171815), utilizes business and industry technical standards and a math, science, and technology framework to introduce concepts of biotechnical engineering, genomics, bioprocesses, agricultural, environmental, and biomedical science in a problem-based format.	CTA, TEC	—
171825	Engineering Design and Development Combined with Engineering Science (subject code 171815) and an elective Project Lead the Way Course introduces concepts of formal research and design in the construction of a solution to an engineering or societal problem.	CTA, TEC	—

Table 25. Career Field 07: Finance Codes (14xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
140025	Finance Career Field Course This career field specialization course is based upon the Finance CFTCS and includes content that crosses all pathways of the career field. It is the basics course that leads to specialization in one of the career pathways of Accounting or Financial Services.	CTA, BUS	—
140100	Accounting (Career Technical) Prepares students for careers that record, classify, summarize, analyze and communicate a business's financial information and business transactions. Accounting includes such activities as bookkeeping, systems design, and analysis and interpretation of accounting information. Sample occupations include: certified public accounting (CPA), auditor, financial accountant, accounting clerk, treasurer, bookkeeper, forensic accountant, and international accountant.	CTA, BUS	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
140110	Financial Services Prepares students for careers in banking, securities and investments, and insurance. Activities include accepting deposits, lending funds and extending credit, banking services, investments, mortgages and loans, investments, real estate, and insurance. Sample occupations include: loan officer, branch manager, investment banker, financial planner, bank teller, personal financial advisor, real estate broker, and credit analyst.	CTA, BUS	—

Table 26. Career Field 08: Government and Public Administration Codes (090230, 360230)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
090230	Government and Public Administration Prepare students for careers in government and public administration at the local, county, state and federal levels. Areas of study include public management and administration, revenue and taxation, regulation, homeland security, foreign service and environmental policy and resource management.	CTA	—
360230	Government and Public Administration Students will focus on those careers that are inherent to government, as well as other career fields that are utilized in a government and public administration context.	CTA	—

Table 27. Career Field 09: Health Science Codes (07xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
070001	Foundation for Health Careers A 9th and/or 10th grade Career Pathway foundations course leading to Health Services career majors. Curriculum must be based on the integrated technical & academic competencies (ITAC) for health careers.	CTA	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
070005	Health Science Utilizing business and industry technical standards and a math, science, ELA, technology, and business process framework combined with specialized competencies develops technical literacy in the Health Science Career Field leading to pathways in Clinical Healthcare Services, Health Information Management, Health Support Services and Bioscience Research & Development and specialization areas (e.g. physical therapy, dental assisting, medical assisting, nursing, radiology, surgical technology, etc.) with post-secondary articulation.	CTA	—
070101	Dental Assistant Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, instruction includes concepts, subject matter and laboratory experience to assist the dentist in the dental operator, clerical functions, and selected dental laboratory work.	CTA	—
070103	Dental Laboratory Technology Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces subject matter and experiences in producing restorative appliances authorized by a dentist.	CTA	—
070203	Medical Laboratory Technology Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces concepts, subject matter and experiences to perform diagnostic analytic laboratory tests including phlebotomy techniques.	CTA	—
070204	Phlebotomy Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces subject matter and experiences to lead to a recognized, portable credential as a certified phlebotomist.	CTA	—
070302	Practical Nursing Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, instruction includes subject matter and supervised clinical experiences to provide direct nursing care under the supervision of a registered nurse, licensed physician, dentist, or chiropractor.	CTA	—
070303	Nurse Assisting Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces concepts, subject matter and clinical experiences in the care of individuals under the supervision of a nurse.	CTA	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
070305	Surgical Technology Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces concepts, subject matter and experiences as a general assistant on the surgical team in the operating suite.	CTA	—
070307	Home Health Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces concepts, subject matter and experiences to assist elderly, convalescent, or handicapped in their homes for daily living needs.	CTA	—
070410	Exercise Science/Sports & Recreation Healthcare Utilizing business and industry technical standards and math, science, ELA, and technology framework, in the study of organ systems, study of movement & associated functional response and adaptations, understand scientific basis underlying exercise-induced physiological responses in athletic training, biomechanics, exercise physiology and nutrition for the prevention, diagnosis and treatment of injuries.	CTA	—
070603	Optometric Occupations Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, instruction includes concepts, subject matter and experience to prepare, assemble, and/or fit corrective lenses prescribed by a physician, optometrist or optician.	CTA	—
070904	Medical Assistant Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, instruction includes concepts, subject matter and experience to perform functions and procedures concerned with the diagnosis and treatment of patients under the supervision of a physician.	CTA	—
070906	Community Health Aide Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, instruction includes concepts, subject matter and experience to serve as a liaison between professional health workers and the recipients of health services.	CTA	—
070912	Pharmacy Assisting Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, instruction includes concepts, subject matter and experiences to work in a pharmacy under the supervision of a pharmacist.	CTA	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
070913	Health Unit Coordinator Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces concepts, subject matter and experiences to manage components of non-patient care activities in health care facilities.	CTA	—
071100	Clinical Health Care Services Combined with specialized competencies and utilizing business and industry technical standards with a math, science, ELA, social studies and technology framework involved in changing the health status of a patient/client over time through performance of tests or evaluations to identify the presence or absence of illness or injury that creates a picture of the health status of an individual at a single point of time.	CTA	—
070994	Patient Care Technician Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces concepts, subject matter and experiences to perform clinical skills such as blood collection, EKGs, catheterization, recording vital signs and patient treatments, and other tasks related to patient care in a variety of healthcare environments under the direct supervision of a registered nurse or other medical professionals.	CTA	—
070998	Diversified Health Occupations (DHO) Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces concepts, subject matter and experiences for basic entry-level knowledge and skills required for a variety of careers in the Healthcare field.	CTA	—
074820	Diagnostic Pathway A clustered program utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, instruction includes concepts, subject matter and experiences in health careers that focus on diagnostic procedures to determine status of body functions/systems, cause and nature of diseases and disorders.	CTA, TEC	—
074830	Therapeutic Pathway A clustered program utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, instruction includes concepts, subject matter and experiences in health careers that focus on care and treatment of individuals for the promotion and maintenance of wellness; prevention and treatment of physical, mental and emotional disorders.	CTA	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
074840	Health Support Pathway Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces concepts, subject matter and experiences for health support services careers, including operation, resource management, esthetics and aseptic procedures of the physical plant to ensure a healthy and well equipped environment in healthcare.	CTA	—
074850	Biotechnology Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces concepts and subject matter in classroom and laboratory experiences in the bioprocesses of organisms, cells or their components to create products or solve problems. Program concentrates on biomedical, environmental, pharmaceutical, bioinformatics and bioethics.	CTA, TEC	—
074890	Health Information Management Services A clustered program utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces concepts, subject matter and experiences for health careers that focus on compilation, maintenance and retrieval of records, reports and statistical data on health services.	CTA, TEC	—
079960	Diversified Cooperative Health Occupations (DCHO) Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces concepts, subject matter and work-based experiences as a cooperative educational program in multi-occupational areas of health care.	CTA	—

Table 28. Career Field 10: Hospitality & Tourism Codes (04xxxx, 09xxxx, 33xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
041118	Hospitality and Tourism (Career Technical) Preparation for marketing occupations in all aspects of the travel and tourism industry.	CTA, BUS	—
090203	Culinary Arts & Food Service Management Preparation for employment in management, production and service positions in the hospitality and tourism industry.	CTA	—
090205	Hotels and Resorts Preparation for employment in service and management positions in the hospitality management, lodging and institutional care in the hospitality and tourism industry.	CTA	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
330005	Culinary and Food Service Operations Educational programs in Culinary and Food Service Operations prepare learners for careers in the art and science of food preparation and presentation.	CTA	—
330010	Lodging Preparation for careers in the management, marketing and operations of lodging facilities.	CTA, BUS	—
330015	Introduction to Hospitality and Tourism Preparation for careers requiring broad, cross-functional knowledge of marketing, management and operations of restaurants, and other food services, lodging, destination marketing organizations, attractions, meetings and events, transportation and travel-related services.	CTA, BUS	—
330020	Travel and Tourism Educational programs in travel and tourism prepare learners for careers in management, marketing and operation of destination marketing organizations, attractions, meetings and events, transportation, and travel related services.	CTA, BUS	—

Table 29. Career Field 11: Human Services Codes (09xxxx, 17xxxx, 99xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
172600	Human Services Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces concepts in Human Services leading to pathways in Family & Community Services or Personal Care Services.	CTA	—
172605	Family and Community Services Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, introduces concepts in the Family and Community Services Pathway such as unemployment, substance abuse, aging and physical, emotional and cognitive disabilities, domestic violence, physical/emotional abuse, poverty and community resources.	CTA	—
090001	Human Resources/Services Foundation A career pathway foundations course which leads to one of the Human Resources/Services career majors.	CTA	—
172602	Cosmetology Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, instruction includes variety of beauty treatments including care and beautification of the hair, complexion, hands and feet.	CTA	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
172601	Barbering Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process framework, instruction and clinical experiences includes haircutting and styling, shaving and massaging with emphasis on hygiene, skin and scalp diseases, and sterilization of instruments and utensils.	CTA	—
990371	Vocational Job Training Coordinating A specialized community based job training program for students with disabilities who are unable to successfully participate in regular career-technical education programs even when adjusted programs and supplemental aides or specialized supportive personnel are available. The program utilizes a job training coordinator to match specific jobs in the community to the individual student's skills. Job coach services must be made available to assist the students to gain the skills necessary for the job. Students must be at least sixteen years old and this program must be identified on the student's individualized educational program (IEP).	CTA	—

Table 30. Career Field 12: Information Technology Codes (14xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
140200	Information Technology I (Career Technical) This course is designed to serve as the first course in a Career-Technical program in information technology. Based on information technology basics (9th and 10th grade competencies) and other fundamental skills drawn from it WORKS.OHIO, the Ohio Career Field Technical Content Standards for Information Technology, this course must lead to a specialized program in Information Support and Services, Network Systems, Programming and Software Development or Interactive Media.	CTA, BUS, TEC	—
140210	Information Support and Services (Career Technical) An instructional program that provides training for careers dealing in information technology deployment and information systems management and support.	CTA, BUS, TEC	—
140220	Network Systems (Career Technical) An instructional program that provides training for careers in communication network systems planning, administration, and management.	CTA, BUS, TEC	—
140230	Programming and Software Development (Career Technical) An instructional program that provides training for careers dealing with hardware and software programming to design, develop, and implement computer systems and software.	CTA, BUS, TEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
140240	Interactive Media (Career Technical) An instructional program that provides training in the area of interactive multi-media development that includes creating, designing, and producing interactive multimedia products and services and digitally-generated or computer-enhanced media.	CTA, BUS, TEC	—

Table 31. Career Field 13: Law & Public Safety Codes (17xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
172801	Fire Fighter Training Utilizing business and industry, math, science and technology standards, provides concept of paid, full-time firefighter. The training program must be chartered through the Ohio Department of Public Safety or have an agreement with a chartered fire fighter training program.	CTA	—
172802	Criminal Justice Utilizing business and industry, math, science and technology standards, introduces concept of training provided by officially designated law enforcement agencies. The program must be certified by the Ohio Peace Officers Training Commission.	CTA	—
172808	Private Security A one-year program utilizing business and industry, math, science and technology standards, introduces concept of physical and personal security, internal loss and facility access.	CTA	—
172809	Fundamentals of Public Safety This course is designed to introduce foundational competencies common to all public safety career pathways. Curriculum is based on the Career Cluster ITACs of Human Resources/Services.	CTA	—
172810	Career Paths for the Law Profession Utilizing business and industry, math, science and technology standards, introduces knowledge and skills to prepare students for entry level, technical and professional career options within the law and public administration professions.	CTA	—
172811	Emergency Medical Technician – Secondary Utilizing business and industry, math, science and technology standards, instructs to the level of EMT-Basic. This course must include the Ohio Department of Public Safety approved EMT-Basic curriculum and be provided through an accredited ODPS provider. This course is a minimum of 450 hours with the ODPS curriculum limited to the senior level.	CTA	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
172812	Public Safety – Core Utilizing business and industry, math, science and technology standards, introduces concept of knowledge and skills applicable to public safety careers, e.g., Firefighter, EMT-Basic, and Criminal Justice. This course is to be taught only in conjunction with an approved senior level specialized public safety program.	CTA	—
172815	Criminal Science Technology Utilizing business and industry standards as framework for application of clinical and criminal laboratory science, evidentiary testing & analysis, study of society's formal control system, investigative techniques, criminal law, criminal process, administration of Justice System, computer applications, record-keeping, and reconstruction techniques.	CTA	—

Table 32. Career Field 14: Manufacturing Technologies Codes (17xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
170360	Manufacturing Operations Utilizing business and industry, math, English, science and technology standards, introduces the concepts of Manufacturing Operations; management, process and product quality assurance, logistics, maintenance, manufacturing costs, marketing, safety and health.	CTA	—
170370	Automation & Robotics Utilizing business and Industry, math, English, science and technology standards, introduces concepts of Automation and Robotics technologies: Computer Numerical Control (CNC), Data Acquisition and Analysis, Electrical/Electronic controls, Fluid Power, Robotics and Programmable Logic Controllers (PLC).	CTA	—
170002	Manufacturing Foundations A one-year 9th and/or 10th grade course that is a component of a series of academic, technological, employability and occupational courses leading to a career major in manufacturing. Curriculum must be based on the ITAC for manufacturing.	CTA	—
170006	Manufacturing Technologies Combined with specialization competencies utilizing business and industry technical standards and a math, science, ELA, technology, and business process framework, develops technical literacy in manufacturing systems, leading to pathways in manufacturing operations, product design and material production and post-secondary articulation.	CTA, TEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
170050	Workforce Readiness Program Classroom and laboratory experiences designed for students who are not prepared for the rigors of occupationally specific workforce development programs. Content includes elements of laboratory experiences from one or more Industrial and Engineering Systems programs offered in the district.	CTA	—
170200	Appliance Repair Classroom and laboratory learning experiences concerned with the diagnosis, repair, and maintenance of major home appliances.	CTA, TEC	—
171012	Integrated Systems Technology Utilizing business and industry, math, science and technology standards, introduces concept of the maintenance of machinery and mechanical equipment of an industrial plant or factory.	CTA	—
171300	Manufacturing Design and Development Utilizing business and industry, math, English, science and technology standards, introduces concepts of Design and Development Technologies: Design Process, Teamwork and Project Management, Marketing, Technical Applications, Modeling, Materials and Quality Assurance.	CTA, TEC	—
171503	Electronics Utilizing business and industry, math, science, and technology standards, introduces concepts of electronic theory and practice.	CTA, TEC	—
172302	Precision Machining Utilizing business and industry, math, science, and technology standards, introduces concepts related to set-up and operation; and the control of various metal working equipment.	CTA, TEC	—
172303	Manufacturing Occupations Specialized one-year program to prepare a semi-skilled worker for entry-level positions in diverse manufacturing occupations not specifically addressed in the OCAP, TCPs, or ITACs.	CTA, TEC	—
172306	Welding and Cutting Utilizing business and industry, math, science, and technology standards, introduces concepts of metal welding, brazing and flame cutting.	CTA, TEC	—

Table 33. Career Field 15: Marketing Codes (04xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
040115	Entertainment Marketing (Career Technical) Preparation for marketing in radio and TV broadcasting, performing arts and related media.	CTA, BUS	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
040805	Introduction to Marketing Broad preparation for careers that help identify and understand target audience needs and wants, generate demand, or get a good, service or idea to that audience. This can be the first course for all marketing, business administration or hospitality and tourism pathways.	CTA, BUS	—
040810	Marketing Management Educational programs in marketing management prepare learners for careers requiring broad, cross-functional knowledge of marketing and management. These functions include supply-chain management, marketing-information management, pricing, product/service management, marketing communications, and selling.	CTA, BUS	—
040815	Marketing Communications Preparation for careers that inform, remind, and/or persuade a target audience including advertising, public relations, and multimedia marketing communications.	CTA, BUS	—
040820	E-Commerce Marketing (Career Technical) Preparation for the development and implementation of e-commerce marketing activities for businesses conducting transactions in an on-line environment.	CTA, BUS, TEC	—
040830	Marketing Technology (Career Technical) Preparation for marketing careers focused on product/service planning, financing, promotion, distribution, information management, pricing and selling.	CTA, BUS	—
040840	Sports Marketing Preparation in the marketing functions as they relate to the sports industry. Included are recreational, collegiate and professional sports and the licensing, endorsement, venue and sponsorship issues common to the industry.	CTA, BUS	—
041900	Acquisition and Logistics (Career Technical) Preparation for the strategic operation and management of marketing systems with emphasis on logistics components, including purchasing and warehousing.	CTA, BUS	—
044110	Entrepreneurship Preparation for starting new ventures that create, power and change business activity – meaning new markets, new products, new production methods and new businesses.	CTA, BUS	—
044100	Introduction to Entrepreneurship Preparation for the early business stages of starting new ventures that create, power and change business activity – meaning new markets, new products, new production methods and new businesses.	CTA, BUS	—

Table 34. Career Field 16: Transportation Systems Codes (17xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
170350	Transportation Systems Combined with specialization competencies utilizing business and industry technical standards and math, science, ELA, technology, and business process framework, develops technical literacy in transportation systems, leading to pathways in ground and air transportation and post-secondary articulation.	CTA	—
170004	Transportation Foundations A one-year 9th and/or 10th grade course that is a component of a series of academic, technological, employability and occupational courses leading to a career major in the area of transportation. Curriculum must be based on the ITAC for transportation.	CTA	—
170301	Auto Collision Repair Specialized learning experiences concerned with all phases of the repair of damaged vehicle bodies and frames. Areas of Instruction may include: Paint and Refinishing, Mechanical/Electrical Repair, Structural and Non-Structural Repair.	CTA, TEC	—
170302	Auto Technology Learning experiences involving the service and repair of the mechanical components of the vehicle. The focus of the program will be in the ASE areas of Electrical/Electronic Systems, and Suspension and Steering, Brakes and Engine Performance.	CTA, TEC	—
170303	Auto Specialization Specialized learning experiences that involve more intensive training in a single automotive system. Examples may include Automotive Detailing, Custom Car Prep, High Performance, Alternative Fuel, Engine Repair, Transmission Service.	CTA, TEC	—
170400	Aviation Occupations Classroom and practical experiences that include instruction relating to aircraft maintenance, operation, and ground support. Instructor and program must be certified by the Federal Aviation Administration (FAA).	CTA, TEC	—
170401	Aircraft Maintenance This is the official FAA – Aviation Maintenance Air Frame and Powerplant Course. 1800 hour program. Instructor and program must be certified by the Federal Aviation Administration (FAA) in airframe and power plant.	CTA, TEC	—
170403	Ground Operations This program is geared toward the Airport Environment and activities concerning the ground support of commercial aircraft, terminal and hanger activities.	CTA, TEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
171200	Medium/Heavy Truck Technician This program focuses on the service and repair of trucks. Instruction includes the diagnosis, maintenance and repair of diesel engines operational systems. ASE areas of concentration are: Diesel Engines, Suspension and Steering, Brakes, Electrical/Electronic Systems and Preventive Maintenance Inspection.	CTA, TEC	—
173100	Power Equipment Technology Training in this program focuses on 2 and 4 cycle gasoline powered engines and their use in outdoor power and recreational equipment. This includes the basic service and preventative maintenance of equipment.	CTA, TEC	—
179960	Diversified Cooperative Training (DCT) This is a specialized program designed for high school students who are at least 16 years of age and are in their final year of high school.	CTA	—

CAREER BASED INTERVENTION SECTION

Table 35. Career Based Intervention (CBI) Codes (25xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
250510	CBI Language Arts Content based on academic content standards; for CBI students facing academic barriers. (These courses are always reported in EMIS with course type “VV3”.)	ENG	Language Arts
250519	CBI Reading Content based on academic content standards; for CBI students facing academic barriers. (These courses are always reported in EMIS with course type “VV3”.)	ENG	Reading
251110	CBI Mathematics Content based on academic content standards; for CBI students facing academic barriers. (These courses are always reported in EMIS with course type “VV3”.)	MTH	Mathematics
251310	CBI Science Content based on academic content standards; for CBI students facing academic barriers. (These courses are always reported in EMIS with course type “VV3”.)	SCI	Science
251510	CBI Social Studies Content based on academic content standards; for CBI students facing academic barriers. (These courses are always reported in EMIS with course type “VV3”.)	SOC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
252525	Career Based Intervention CBI programs are designed for students ages 12 through 21 in grades 7 through 12 who are identified as disadvantaged (either academically or economically or both) and who have barriers to achieving academic and career success. The goals of the program are to help students improve academic competence, graduate from high school, develop employability skills, implement a career plan and participate in a career pathway in preparation for postsecondary education and/or careers.	CTA	—

CAREER DEVELOPMENT SECTION

Table 36. Career Development Codes (99xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
990361	Entrepreneurship (Career Technical) Exploring owning your own business.	CTA	—
990362	Employability Skills (Career Technical) Work related skills for entering, competing and advancing in a changing work world.	CTA	—

FAMILY AND CONSUMER SCIENCES (CAREER TECHNICAL) SECTION

Table 37. Work & Family Studies Codes (09xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
090101	Personal Development Practical problems related to taking responsibility for self and others; building self-esteem; building relationships with family and others; managing stress and conflict; and planning for future careers.	CTA	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
090102	Parenting and Child Development (9-12) Practical problems related to parenting roles and responsibilities; taking responsibility for personal growth within the parenting role; preparing for parenthood; meeting developmental needs of children and adolescents; building positive parent-child relationships; using guidance and discipline to promote self-discipline, self-esteem, and socially responsible behavior in children and adolescents; accessing sources of parenting information, support, and assistance; and planning ways that families and society can share in nurturing children and adolescents.	CTA	—
090106	Family Relations Practical problems related to nurturing human development throughout the life span; forming one's own family; building and maintaining healthy family relationships; developing positive communication patterns; dealing effectively with family stresses, conflicts, and crises; managing work and family roles and responsibilities, and responding to social forces that influence families.	CTA	—
090107	Nutrition and Wellness (9-12) Practical problems related to making choices that promote wellness and good health; evaluating and controlling influences on food choices; obtaining and storing food; preparing and serving nutritious meals and snacks; and selecting and using equipment for food preparation.	CTA	—
090108	Resource Management Practical problems related to managing resources to achieve personal and family goals; making informed consumer choices; creating and maintaining a living environment; selecting, obtaining and maintaining clothing; making food choices; and preparing and serving nutritious food.	CTA	—
090111	Life Planning (9-12) Practical problems related to developing a life-management plan for life beyond high school; caring for self and others; building and maintaining constructive interpersonal relationships and strong functional families; planning to assure career success; and coordinating personal and career responsibilities.	CTA	—
090112	Life Planning with Career Mentorship (9-12) Life Planning course with a career mentorship (work-based learning) experience attached. Student experience must include local documentation of ITAC competency achievement and follow established guidelines for program design.	CTA	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
090185	Middle School Work and Family Life (7-9) Focuses on helping middle school students develop self-responsibility and competence dealing with the practical problems of early adolescence. Content is drawn from two to four of the following content areas: Career, Community and Family Connections; Consumer and Family Resources; Family; Interpersonal Relationships; Nutrition and Wellness; and Parenting. Career, Community and Family Connections provides an ideal context for career exploration and the development of the Individual Career Plan (ICP).	CTA	—
090192	GRADS – Minimum Intervention/Follow-up Graduation, Reality and Dual-role Skills (GRADS) is an instructional and intervention program for pregnant and parenting students, male and female. An in-school instructional program for pregnant and parenting students, grades 7-12. The mission is to promote personal growth, educational competence, and economic self-sufficiency as socially responsible members of society. The objectives are for the student to remain in school, have healthy pregnancies and healthy babies, learn practical parenting and child-development skills, gain orientation to work, set goals toward balancing work and family, and delay subsequent pregnancies.	CTA	—
090193	GRADS – Alternative Structure Graduation, Reality and Dual-role Skills (GRADS) is an instructional and intervention program for pregnant and parenting students, male and female. An in-school instructional program for pregnant and parenting students, grades 7-12. The mission is to promote personal growth, educational competence, and economic self-sufficiency as socially responsible members of society. The objectives are for the student to remain in school, have healthy pregnancies and healthy babies, learn practical parenting and child-development skills, gain orientation to work, set goals toward balancing work and family, and delay subsequent pregnancies.	CTA	—
090194	GRADS – Class Structure Graduation, Reality and Dual-role Skills (GRADS) is an instructional and intervention program for pregnant and parenting students, male and female. An in-school instructional program for pregnant and parenting students, grades 7-12. The mission is to promote personal growth, educational competence, and economic self-sufficiency as socially responsible members of society. The objectives are for the student to remain in school, have healthy pregnancies and healthy babies, learn practical parenting and child-development skills, gain orientation to work, set goals toward balancing work and family, and delay subsequent pregnancies.	CTA	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
090700	Consumer and Financial Literacy Students will learn how to manage money, set goals, understand needs and wants, develop spending plans that fit different careers, and make financial decisions based on the impact of advertising and practice good consumer responsibilities.	CTA	—
091025	Child Development Provide students with knowledge of how parents and child care providers meet the needs of infants and young children to provide for healthy growth and development. Prominent theories of child psychology will be studied.	CTA	—
091050	Financial Management I Course provides students with an understanding of the concepts and principles involved in managing one's personal finances. Topics may include savings and investing, credit, insurance, taxes and social security, spending patterns and budget planning, contracts, and consumer protection. These courses may also provide an overview of the American economy.	CTA	—
091051	Financial Management II Course helps students evaluate resources, financial institutions and services that meet individual, family and business goals, protect financial health including credit and debit, prevent loss of assets, and advocate public policy issues that impact financial well-being.	CTA	—
091400	Career Search I Update IACP plans, practice job skills, and interpret career and workplace issues. Demonstrate how academic achievement influences personal and career growth, conflict resolution techniques and apply social skills that lead to effective school, career and family relationships that lead to a healthy, caring and responsible citizen.	CTA	—
091401	Career Search II (Includes Mentorship) Areas of study would include assessing career plans, managing job searches, and examining career and workplace issues, develop essential interpersonal skills, communication skills and workplace related skills. The course has a mentorship experience attached.	CTA	—
091410	Transitions and Careers Students develop personal assets of a healthy, responsible citizen and family member who are responsible for their academic, career and personal growth.	CTA	—
090050	Healthy Food – Middle School Provide students with the knowledge to evaluate good food choices and develop a plan for maintaining healthy weight. Demonstrate proper food handling, food preparation and apply safe kitchen practices.	CTA	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
091077	Healthy and Safe Food Develop practical problem solving that influences cultural and social factors that affect the body weight and healthy lifestyles. Demonstrate safe food-handling practices related to food-borne pathogens and kitchen environments.	CTA	—
091200	Healthy Living Develop practical problem solving that influences cultural and social factors that affects the body weight and healthy lifestyles. Demonstrate safe food-handling practices related to food-borne pathogens and kitchen environments. Use time management strategies, decision-making skills, peer pressure and multi-cultural awareness that relate to educational, work and family goals that sustain productive, meaningful lifestyles.	CTA	—
091300	Managing Transitions Assess values and resources that support lifestyle goals, effective time management plans, stress management, multicultural awareness that sustains a productive, meaningful lifestyle. Choose resources that meet individual, family and business financial goals, credit and debt issues, techniques to prevent financial loss of assets conflict resolution and public policy that impact financial well-being.	CTA	—

INTERNATIONAL BACCALAUREATE COURSES SECTION

Table 38. International Baccalaureate Courses for Diploma Program (32xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
320050	IB Mathematics Based upon the most current International Baccalaureate Program curriculum.	MTH	Mathematics
320150	IB Mathematical Studies Based upon the most current International Baccalaureate Program curriculum.	MTH	Mathematics
320200	IB First Language Based upon the most current International Baccalaureate Program curriculum.	ENG	English
320250	IB Second Language – Arabic Based upon the most current International Baccalaureate Program curriculum.	FLR	Foreign Language
320300	IB Second Language – Chinese Based upon the most current International Baccalaureate Program curriculum.	FLR	Foreign Language
320350	IB Second Language – Czech Based upon the most current International Baccalaureate Program curriculum.	FLR	Foreign Language
320400	IB Second Language – French Based upon the most current International Baccalaureate Program curriculum.	FLR	Foreign Language
320450	IB Second Language – German Based upon the most current International Baccalaureate Program curriculum.	FLR	Foreign Language
320500	IB Second Language – Hebrew Based upon the most current International Baccalaureate Program curriculum.	FLR	Foreign Language
320550	IB Second Language – Italian Based upon the most current International Baccalaureate Program curriculum.	FLR	Foreign Language
320600	IB Second Language – Japanese Based upon the most current International Baccalaureate Program curriculum.	FLR	Foreign Language
320650	IB Second Language – Polish Based upon the most current International Baccalaureate Program curriculum.	FLR	Foreign Language
320700	IB Second Language – Russian Based upon the most current International Baccalaureate Program curriculum.	FLR	Foreign Language
320750	IB Second Language – Swahili Based upon the most current International Baccalaureate Program curriculum.	FLR	Foreign Language

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
320800	IB Second Language – Spanish Based upon the most current International Baccalaureate Program curriculum.	FLR	Foreign Language
320850	IB Classical Languages (Latin or Classical Greek) Based upon the most current International Baccalaureate Program curriculum.	FLR	Foreign Language
320900	IB Business and Management Based upon the most current International Baccalaureate Program curriculum.	BUS	—
320950	IB Economics Based upon the most current International Baccalaureate Program curriculum.	SOC	Economics
321000	IB Geography Based upon the most current International Baccalaureate Program curriculum.	SOC	Geography
321050	IB History Based upon the most current International Baccalaureate Program curriculum.	SOC	History
321100	IB Islamic History Based upon the most current International Baccalaureate Program curriculum.	SOC	History
321150	IB Information Technology in a Global Society (ITGS) Based upon the most current International Baccalaureate Program curriculum.	TEC	—
321200	IB Philosophy Based upon the most current International Baccalaureate Program curriculum.	N/A	—
321250	IB Psychology Based upon the most current International Baccalaureate Program curriculum.	SOC	—
321300	IB Social and Cultural Anthropology Based upon the most current International Baccalaureate Program curriculum.	SOC	—
321350	IB Biology Based upon the most current International Baccalaureate Program curriculum.	SCI	Science
321400	IB Chemistry Based upon the most current International Baccalaureate Program curriculum.	SCI	Science
321450	IB Physics Based upon the most current International Baccalaureate Program curriculum.	SCI	Science
321500	IB Design Technology Based upon the most current International Baccalaureate Program curriculum.	TEC	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
321550	IB Environmental Systems Based upon the most current International Baccalaureate Program curriculum.	SCI	Science
321600	IB Computer Science Based upon the most current International Baccalaureate Program curriculum.	TEC	—
321650	IB Visual Arts Based upon the most current International Baccalaureate Program curriculum.	FAR	Arts
321700	IB Music Based upon the most current International Baccalaureate Program curriculum.	FAR	Arts
321750	IB Theatre Arts Based upon the most current International Baccalaureate Program curriculum.	FAR	Arts
321775	IB Theory of Knowledge Based upon the most current International Baccalaureate Program curriculum.	SOC	—

Table 39. International Baccalaureate Courses for Middle Years Program (32xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
321800	IB Mathematics (Middle Years - Grades 7-8) Based upon the most current International Baccalaureate Program curriculum.	N/A	Mathematics
321850	IB Mathematics (Middle Years - Grades 4-6) Based upon the most current International Baccalaureate Program curriculum.	N/A	Mathematics
321900	IB Language Arts A (Middle Years - Grades 7-8) Based upon the most current International Baccalaureate Program curriculum.	N/A	English
321950	IB Language Arts A (Middle Years - Grades 4-6) Based upon the most current International Baccalaureate Program curriculum.	N/A	English
322000	IB Language Arts B (Middle Years - Grades 7-8) Based upon the most current International Baccalaureate Program curriculum.	N/A	English
322050	IB Language Arts B (Middle Years - Grades 4-6) Based upon the most current International Baccalaureate Program curriculum.	N/A	English
322100	IB Humanities (Middle Years - Grades 7-8) Based upon the most current International Baccalaureate Program curriculum.	N/A	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
322150	IB Humanities (Middle Years - Grades 4-6) Based upon the most current International Baccalaureate Program curriculum.	N/A	—
322200	IB Technology (Middle Years - Grades 7-8) Based upon the most current International Baccalaureate Program curriculum.	N/A	—
322250	IB Technology (Middle Years - Grades 4-6) Based upon the most current International Baccalaureate Program curriculum.	N/A	—
322300	IB Arts (Middle Years - Grades 7-8) Based upon the most current International Baccalaureate Program curriculum.	N/A	Arts
322350	IB Arts (Middle Years - Grades 4-6) Based upon the most current International Baccalaureate Program curriculum.	N/A	Arts
322400	IB Sciences (Middle Years - Grades 7-8) Based upon the most current International Baccalaureate Program curriculum.	N/A	Science
322450	IB Sciences (Middle Years - Grades 4-6) Based upon the most current International Baccalaureate Program curriculum.	N/A	Science
322500	IB Physical Education (Middle Years - Grades 7-8) Based upon the most current International Baccalaureate Program curriculum.	N/A	—
322550	IB Physical Education (Middle Years - Grades 4-6) Based upon the most current International Baccalaureate Program curriculum.	N/A	—

Table 40. International Baccalaureate Courses for Primary Years Program (32xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
322600	IB Mathematics (Primary Years - Grades 1-3) Based upon the most current International Baccalaureate Program curriculum.	N/A	Mathematics
322650	IB Language (Primary Years - Grades 1-3) Based upon the most current International Baccalaureate Program curriculum.	N/A	English
322700	IB Social Studies (Primary Years - Grades 1-3) Based upon the most current International Baccalaureate Program curriculum.	N/A	—
322750	IB Arts (Primary Years - Grades 1-3) Based upon the most current International Baccalaureate Program curriculum.	N/A	Arts

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
322800	IB Science & Technology (Primary Years - Grades 1-3) Based upon the most current International Baccalaureate Program curriculum.	N/A	Science
322850	IB Personal, Social & Physical Education (Primary Years - Grades 1-3) Based upon the most current International Baccalaureate Program curriculum.	N/A	—

SELF-CONTAINED COURSES SECTION

Table 41. General Education Codes (18xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
180108	Preschool Preschool program in a self-contained classroom, this includes course related to ECE, Federal Head Start, and other local programs.	NA	—
180280	Title I Preschool A preschool program funded with Title I funds.	N/A	—
180050	Early Education (0-2) Courses taught to students ages 0-2.	N/A	—

Table 42. Exceptional Children (for Students with Disability Conditions) Codes (19xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
196095	Early Education of the Handicapped Special Education programs and related services for children below six years of age.	N/A	—
199000	Transition to Post School Readiness Specialized curriculum designed for students with disabilities 14 years of age and older that provides training for the development of skills that supports the students transition to post school environments, including employment, postsecondary education, independent living, or community participation.	N/A	—
Content of the following courses is based on IEP goals linked to standards, but instruction is based on substantial modification to the form and substance of the general education curriculum. Course content focuses largely on application of state standards through essential life skills that typical students generally acquire in a non-school setting. For example, content in these courses linked to language arts standards might be learning to say one's own name or expressing preferences using non-verbal responses; content in these courses linked to math standards might be learning the concept of "one."			
196350	Adaptive Living Skills (K-3) Basic skills for students with severe motor, sensory, or cognitive disabilities that present unique and significant challenges to participation in other courses. Grades K - 3	N/A	—
196360	Adaptive Living Skills (4-6) Basic skills for students with severe motor, sensory, or cognitive disabilities that present unique and significant challenges to participation in other courses. Grades 4 - 6	N/A	—
196370	Adaptive Living Skills (7-8) Basic skills for students with severe motor, sensory, or cognitive disabilities that present unique and significant challenges to participation in other courses. Grades 7 - 8	N/A	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
196380	Adaptive Living Skills (9-12) Basic skills for students with severe motor, sensory, or cognitive disabilities that present unique and significant challenges to participation in other courses. Grades 9 – 12	N/A	—

OTHER COURSES SECTION

Table 43. Other Course Codes (30xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
These courses may be included in district programs and/or graduation requirements. However, these courses are not aligned with the academic content standards and do not represent courses for which credit toward meeting legislated graduation requirements is awarded.			
300010	Career Exploration Scheduled time for researching career options.	ELE	—
300020	Community Service (Volunteer Program) Scheduled time for volunteer service projects during or outside the school day. Note: This course cannot earn credit per ORC §3313.60.5.	ELE	—
300030	Study Skills Instruction in strategies to improve learning and develop study skills; e.g., tips to improve study habits and test performance, with limited coverage of new content or the academic content standards for a single or multiple academic areas.	ELE	—
300040	School Publications Scheduled time for production work and related activities of school publications; e.g., advertising and finances, for newspaper and/or yearbook. Activities not aligned with the academic content standards and do not earn English Language Arts credit.	ELE	—
300050	Wellness A course that addresses general wellness strategies. Credit earned is not applied towards meeting graduation requirements for health and physical education due to limited focus on content related to those areas.	ELE	—

Table 44. Humanities Codes (31xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
Humanities courses may be included in district programs and may be taught by a teacher holding a valid certificate or instruction may be provided by a team of teachers that collectively hold the appropriate certificates/licenses for the content areas included in the course.			
310010	Humanities (7-8) The study of cultural achievements through the integration of literature, the arts, religion, history, and philosophy. (for grades 7-8)	N/A	—
310020	Humanities The study of cultural achievements through the integration of literature, the arts, religion, history, and philosophy.	N/A	—

Table 45. Driver Education Code (210100)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
210100	Driver Education Learning experiences provided by the school for the purposes of helping pupils to become good traffic citizens and to operate motor vehicles safely and efficiently.	ELE	—

Table 46. ROTC Military Science Code (220000)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
220000	ROTC Military Science Organized subject matter and learning activities which are concerned with the development in each student attributes of (1) good citizenship and patriotism, (2) self-reliance, leadership, responsiveness to constituted authority, (3) a knowledge of the basic military skills, and (4) an appreciation of the role of the U.S. military in national defense.	ELE	—