# FY 2011 ODE EMIS MANUAL

# **Appendix C: Subject Codes and Definitions**



# **APPENDIX C REVISION HISTORY**

Version	Change	Description	
0.1	655	Deleted 139999 Other Science.	
0.1	669	Deleted courses 029130, 069910, 069912, 069914, 069916, 069918,	
		069920, 069930, 129926, 139903, 139906, 139930, 152500, 152600,	
		152700, 152820.	
0.1	767	Changed names of courses 070912 and 010201.	
0.1	767	Added courses 010605, 010610, 010615, 010620, 010625, 010630,	
		010635, 042010, 042015, 042020, 042025, 042030, 042035, 042040,	
		042045, 170801.	
0.1	767	Deleted courses 040115, 040820, 040830, 040840, 041118, 070001,	
		070998, 079960, 090001, 090011, 090101, 090102, 090106, 090107,	
		090108, 090111, 090112, 090185, 090201, 090203, 090205, 090230,	
		170002, 170003, 170004, 170050, 170200, 170360, 170700, 170900,	
		171807, 171808, 171809, 171900, 172000, 172004, 172809, 179960.	
0.2	767	Changed title and description of 010155; deleted 010605, which was	
		erroneously added as a new course in the 0.1 version.	
0.2	767	Deleted duplicate of 010201.	
0.3	767	Reinstated 170360, which was deleted in the 0.1 version.	
0.3	669	Added new description for 139905, 139940, and 139950.	
1.0	669	Added new descriptions, revised subject titles for 059920,059930,	
		119550, 119930, 119960.	

The revision history provides a means for the reader 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	FAR	Arts
	fundamentals of dance and choreography. Study also emphasizes the role of dance throughout history and in different cultures.		A .
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.		Arts

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

Subject Code	Description	Suggested Subject	Core Subject Area (for
Code		Area for	HQT)
		Credit	
	Drama/Theatre in grades K-8	N/A	Arts
	The study of dramatic elements and theatrical techniques, particu-		
050337	1 1		
	ner, designed to develop imagination, communication, and		
	expressive skills.		
	Theatre Arts	FAR	Arts
	Subject matter and experiences are concerned with a wide range of		
050600	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, ra-		
	dio, television and film.		

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
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	<b>Design</b> 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 craftspersons 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	<b>Printmaking</b> 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	Studio Art – Drawing	FAR	Arts
029110	Studio Art – 2D Design	FAR	Arts
029120	Studio Art – 3D Design A course in three-dimensional art design for students who are highly motivated and have previous training in art.	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 calendaring/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	Core Subject Area (for HQT)
		Credit	
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 ten. 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

•	Description	Suggested	Core Subject
Code		Subject	Area (for
		Area for	HQT)
		Credit	
	Applied Communications	ENG	English
	This course gives students practice in communication skills of read-		
	ing, writing, listening and speaking in their chosen vocations. Stu-		
050545	dents 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.		
059920	English Language & Composition	ENG	English
059930	English Literature & Composition	ENG	English
	Other English/Language Arts Course	ENG	English
059999	A topical course that can cover the different aspects of English Lan-		
	guage arts. Instruction will be centered around the benchmarks of		
	the English language arts Content Standards.		

#### **FAMILY & CONSUMER SCIENCES SECTION**

The courses below earn Home Economics Credit.

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

•	Description	Suggested	<b>Core Subject</b>
Code		Subject Area for Credit	Area (for HQT)
	Family & Consumer Sciences	HEC	_
230000	Content from a combination of the various areas of family and con-		
	sumer sciences.		
230100	Clothing and Textiles	HEC	
230100	Nature, acquisition, and the use of clothing and textiles.		
230140	Foods and Nutrition	HEC	
230140	Food and its role in personal and family living.		
230200	Child Development and Parenting	HEC	_
230200	The developing child and the care and guidance of children.		
	Consumer Education	HEC	_
230300	Consumer education as it relates to the management of homes and		
	families.		
230500	Family Living	HEC	_
230300	Nurturing human development through the life span.		
220600	Housing and Home Furnishings	HEC	_
230600	Choosing, equipping and furnishing living environments.		

## FOREIGN LANGUAGE SECTION

Table 8. Foreign Language Codes (06xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
060101	<b>Arabic</b> 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	<b>Hebrew</b> 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	<b>Russian</b> 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
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	<b>Italian</b> 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

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
	Japanese	FLR	Foreign
060250	The study of the language and culture of the Japanese-speaking		Language
000230	world leading to the ability to communicate in a range of situations		
	and glean meaning from a variety of texts.		
	Polish	FLR	Foreign
060255	The study of the language and culture of the Polish-speaking world		Language
000233	leading to the ability to communicate in a range of situations and		
	glean meaning from a variety of texts.		
	Spanish	FLR	Foreign
060265	The study of the language and culture of the Spanish-speaking		Language
000203	world leading to the ability to communicate in a range of situations		
	and glean meaning from a variety of texts.		
	Foreign Language (Exploratory)	FLR	Foreign
060900	A language survey course during which students are exposed to		Language
	several languages.		
	TESOL-English as a Second Language (ESL)	FLR	Foreign
	The study of the language and culture of the English-speaking		Language
060207	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.		
	American Sign Language (ASL)	FLR	Foreign
	The study of a visual-gestural language used by deaf people in the		Language
061050	United States and part of Canada. ASL has its own culture, gram-		
	mar, and vocabulary; is produced by using the hands, face, and		
	body; and is not derived from any spoken language.		
069922	Latin: Vergil	FLR	Foreign
	Students read, translate, analyze, and interpret the works of Vergil.		Language
0.5004.	French Literature	FLR	Foreign
069915	A formal study of a representative body of literary texts in French		Language
	for students who have advanced language skills.	Er D	<b>.</b>
0.60025	Spanish Literature	FLR	Foreign
069935	A formal study of a representative body of literary texts in Spanish		Language
	for students who have advanced language skills	ELD	г .
069925	Latin Literature	FLR	Foreign
	Students read, translate, analyze, and interpret Latin works.	NT/A	Language
060051	Early Language Learning Arabic  The study of a language and sulting other than English in	N/A	Foreign
069951	The study of a language and culture other than English in		Language
	elementary school-Arabic.	NT/A	F
060052	Early Language Learning Chinese  The study of a language and sultime other than English in	N/A	Foreign
069952	The study of a language and culture other than English in		Language
	elementary school-Chinese.	N/A	Foreign
060052	Early Language Learning Japanese  The study of a language and sulture other than English in	IN/A	Foreign
069953	The study of a language and culture other than English in		Language
	elementary school-Japanese.		

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
	Early Language Learning Italian	N/A	Foreign
069954	The study of a language and culture other than English in elementary school-Italian.		Language
	Early Language Learning German	N/A	Foreign
069955	The study of a language and culture other than English in elementary school-German.		Language
	Early Language Learning Hebrew	N/A	Foreign
069956	The study of a language and culture other than English in elementary school-Hebrew.	1 1 1 1	Language
	Early Language Learning French	N/A	Foreign
069957	The study of a language and culture other than English in elementary school-French.		Language
	Early Language Learning Spanish	N/A	Foreign
069958	The study of a language and culture other than English in elementary school-Spanish.		Language
	Early Language Learning Swahili	N/A	Foreign
069959	The study of a language and culture other than English in elementary school-Swahili.		Language
	Early Language Learning Russian	N/A	Foreign
069960	The study of a language and culture other than English in elementary school-Russian.		Language
	Early Language Learning Latin	N/A	Foreign
069961	The study of a language and culture other than English in elementary school-Latin.		Language
	Early Language Learning Greek	N/A	Foreign
069962	The study of a language and culture other than English in elementary school-Greek.		Language
	Early Language Learning American Sign Language	N/A	Foreign
069963	The study of a language and culture other than English in elementary school-American Sign Language.		Language

# **HEALTH AND PHYSICAL EDUCATION SECTION**

#### **Table 9. Health Education Codes (26xxxx)**

Subject	Description	Suggested	<b>Core Subject</b>
Code		Subject	Area (for
		Area for	HQT)
		Credit	
	Health Education	HTH	_
260101	Educational activities that promote understanding, attitudes, and		
	practices consistent with individual, family, and community health		
	needs.		

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
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.	НТН	
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.	НТН	
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.	НТН	_
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.	НТН	

#### Table 10. Physical Education Codes (08xxxx)

Subject	Description	Suggested	<b>Core Subject</b>
Code		Subject	Area (for
		Area for	HQT)
		Credit	
	Physical Education	PHE	—
	A comprehensive subject area which incorporates fundamental mo-		
080300	tor skills, body control and balance, physical fitness, leisure sports		
	and games skills, cognitive skills, as well as stress management		
	skills.		
	Lifetime Sports	PHE	_
080405	Activities taught throughout the school life with emphasis on learn-		
	ing experiences that can be turned into healthful lifetime skills.		
	Adapted Physical Education	PHE	_
	Adapted Physical Education is specially designed instruction in		
080505	physical education. According to federal law, physical education		
000303	means the development of (a) physical and motor fitness; (b) fun-		
	damental motor skills and patterns; and (c) skills in aquatics, dance,		
	and individual and group games and sports.		
	Outdoor Physical Education	PHE	_
080900	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.		

080999	Other Physical Education Course	PHE	_
	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.		

## **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 follo	owing four courses do not earn high school mathematics credit.		
	Mathematics K-3  Instruction provided by a teacher to multiple groups of students re-	N/A	Mathematics
110003	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.		
	Mathematics 4-6	N/A	Mathematics
110150	Includes content in the 4-6 portion of Ohio's academic content standards for mathematics.		
	Mathematics 7-8	N/A	Mathematics
110175	Includes content in the 7-8 portion of Ohio's academic content standards for mathematics.		
	Advanced Mathematics/Pre-Algebra 6-8 (not for high school credit)	N/A	Mathematics
110050	Optional program that accelerates completion of the K-8 program and prepares students to enroll in high school level courses prior to grade 9.		

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

Subject	Description	Suggested	<b>Core Subject</b>
Code		Subject	Area (for
		Area for	HQT)
		Credit	
Topic-F	ocused Mathematics Course Sequence: A four-year program or se	equence of c	ourses that ad-
dress hig	th school level content through topic-focused, discrete courses.	_	
	Algebra I	MTH	Mathematics
110301	In-depth study of algebraic concepts and processes to represent and		
110301	solve problems that involve variable quantities. Includes using and		
	relating graphical and symbolic representations and techniques.		
	Geometry	MTH	Mathematics
111200	In-depth study of two and three-dimensional geometry including		
111200	representing problem situations using geometric models, deductive		
	reasoning, and geometry from an algebraic perspective.		
110302	Algebra II	MTH	Mathematics
	Further study of algebraic concepts and processes such as matrices,		
	vectors, and logarithmic and trigonometric functions.		

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
110099	Advanced Mathematics The study of advanced topics in functions, algebra, geometry, and data analysis including the conceptual underpinnings of calculus.	MTH	Mathematics
the conte	ed Mathematics Course Sequence: A four-year program or seque ent in the grades 9-12 portion of Ohio's academic content standards usent standards, e.g., algebra, geometry, and data analysis, are included in	sing an integr	ated approach.
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	<b>Integrated Mathematics III</b> 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
manipula	evel content through concrete models and real-world situations and winding and formal mathematical structure. See Program Model A 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	<b>Applied Geometry</b> Includes courses with a geometry focus such as Basic Geometry, Informal Geometry, or Applied Geometry.	MTH	Mathematics
110500	<b>Applied Mathematics</b> 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.	МТН	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	<b>Trigonometry</b> 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	Statistics	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
119930	Calculus AB	MTH	Mathematics
119960	Calculus BC	MTH	Mathematics

•	Description	Suggested	Core Subject
Code		Subject	Area (for
		Area for	HQT)
		Credit	
	Other Mathematics Course	MTH	Mathematics
	High school level elective course that addresses advanced		
	mathematical topics. Course Other mathematics course for which		
119999	high school credit can be earned that is different in scope from any		
119999	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.		

# **SCIENCE SECTION**

#### Table 14. Science Codes (13xxxx)

Subject Code	Description	Suggested Subject Area for	Core Subject Area (for HQT)
		Credit	<b>\&amp;</b> -)
132110	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	Description	Suggested	Core Subject
Code	Description	Subject	Area (for
Couc		Area for	HQT)
		Credit	11(1)
	Science (4-6)	N/A	Science
	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,		
122120	physical and chemical changes in matter, thermal and electric ener-		
132120	gy 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.		
	Science (7-8)	N/A	Science
	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 tec-		
	tonics, 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 physi-		
	cal changes, nature of energy, conservation of matter and energy,		
132130	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 in-		
	vestigations using proper tools, applying mathematics skills, eva-		
	luating and analyzing variables of data, and drawing valid		
	conclusions based on evidence.		
	Integrated Sciences I: Physical Sciences	SCI	Science
	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		
132212	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; rela-		
	tionship between technology and science; diversity of scientific in-		
	vestigations, scientific theories, scientific literacy, scientific		
	conclusions, and modeling investigations.		

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, biologi- cal 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 inte- ractions 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 investiga- tions.	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, biologi- cal evolution, historical perspectives and emerging issues; scientific advances and emerging technologies; nature of science inquiry, eth- ics 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)
139905	Physics B Course includes topics in both classical and modern physics. Course provides instruction in each of the following five content areas: Newtonian mechanics, fluid mechanics and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics.	SCI	Science
139940	Physics C - Electricity & Magnetism Course provides instruction in each of the following five content areas: electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism.		Science
139950	Physics C – Mechanics Course provides instruction in each of the following six content areas: kinematics; Newton's laws of motion; work, energy, and power; system of particles and linear momentum; circular motion and rotation; and oscillations and gravitation.		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.		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

## **SOCIAL STUDIES SECTION**

#### **Table 15. Social Studies Codes (15xxxx)**

Subject Code	Description	Suggested Subject	Core Subject Area (for
		Area for Credit	HQT)
	Social Studies (K-3)	N/A	_
151209	Social studies instruction offered primarily for students in grades K-3.		
151210	Social Studies (4-6) Social studies instruction offered primarily for students in grades 4-	N/A	_
	6. Social Studies (7-8)	N/A	
151201	` '	IN/A	_
150110	Anthropology (7-8) The study of the physical, social and cultural development of humans. (for grades 7-8)	N/A	

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
	Economics (7-8)	N/A	Economics
150610	The study of how society uses its resources to satisfy the desires of		
	its citizens for goods and services. (for grades 7-8)	/.	
150701	Geography (7-8)	N/A	Geography
	The study of spatial aspects of human existence. (for grades 7-8)	NT/A	G' ' 1
150205	Government (7-8)	N/A	Civics and
150305	The study of institutions and processes through which decisions are		Government
	made for a society. (for grades 7-8)	NT/A	TT'
150807	History (American) (7-8)	N/A	History
	The study of America's past. (for grades 7-8)	NY / A	***
150010	History (Integrated) (7-8)	N/A	History
152310	The integrated study of American history and world history. (for		
	grades 7-8)	NT/A	TT' .
152410	History (Regional) (7-8)	N/A	History
	The study of a region's past. (for grades 7-8)	NT/A	TT'
150888	History (World) (7-8)	N/A	History
	The study of the world's past. (for grades 7-8)	NT/A	
151101	Psychology (7-8)	N/A	
151131	The study of the human mind and its influence on behavior. (for		
	grades 7-8)	NT/A	
150210	Social Psychology (7-8)	N/A	
	The study of individual human behavior in groups. (for grades 7-8)	NT/A	
151207	Sociology (7-8)	N/A	
151207	The study of social relationships, institutions, and group behavior in		
	societies. (for grades 7-8)	202	
150100	Anthropology	SOC	
150100	The study of the physical, social and cultural development of hu-		
	mans.	200	г .
150600	Economics The state of the stat	SOC	Economics
150600	The study of how society uses its resources to satisfy the desires of		
	its citizens for goods and services.	200	C 1
150700	Geography	SOC	Geography
	The study of spatial aspects of human existence.	000	C: 1
150200	Government	SOC	Civics and
150300	The study of institutions and processes through which decisions are		Government
	made for a society.  Government/Economics	SOC	Civics and
	The study of institutions and processes through which decisions are	SOC	Government
150308	made for a society and the study of how that society uses its re-		Government
	sources to satisfy the desires of its citizens for goods and services.		
	History (American)	SOC	History
150810	The study of America's past.	SOC	History
		SOC	Listory
152300	<b>History (Integrated)</b> The integrated study of American history and world history.	SUC	History
	History (Regional)	SOC	History
152400	• , 5 ,	300	History
	The study of a region's past.		

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
150890	<b>History (World)</b> The study of the world's past.	SOC	History
152100	Integrated Social Studies Integrated study using various social studies disciplines.	SOC	
150400	<b>Intervention Social Studies</b> 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	<b>Sociology</b> The study of social relationships, institutions, and group behavior in societies.	SOC	_
152810	<b>European History</b> The study of Europe's past.	SOC	History
159960	Government & Politics (Comparative) The comparative study of the institutions and processes through which decisions are made for societies.	SOC	Civics and Government
159950	Government & Politics (United States) The study of institutions and processes through which decisions are made for the United States.	SOC	Civics and Government
159930	Macroeconomics The study of the functioning of entire economies.	SOC	Economics
159940	Microeconomics The study of the behavior of individual households, firms and markets.	SOC	Economics
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	Description	Suggested	<b>Core Subject</b>
Code		Subject	Area (for
		Area for	HQT)
		Credit	

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.

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
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	_
and prog	er Science codes include computer/multimedia literacy, software, Ir gramming. All courses should be based on advanced topics aligned vechnology academic content standards. Credit cannot be given for	with the 9-12	section of the
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	<b>Technology-Productivity Tools</b> 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	<b>Technology-Communication Tools</b> 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	<b>Technology-Problem-Solving Tools</b> 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	<b>Internet Searching</b> 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.		_
290075	<b>Technology: Electronic Resources</b> 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	

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
290140	<b>Technology and Ethics</b> 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.		
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., BA-SIC, COBOL, DOS, Visual BASIC, C++, HTML, XML, MSDN, etc. Topics also include operating systems, servers, networks, etc.	TEC	_
290310	Computer Science A The study of programming methodology with an emphasis on prob-	TEC	_
290320	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.	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	Core Subject Area (for HQT)
The follo	owing courses do not earn high school technology credit. This instru	Credit ction may al	so be provided
by a teac	ther to multiple groups of students rather than in a self-contained class	sroom setting	. The K-8 con-
tent acro	ss Ohio's Technology standards defines achievement in meeting the	No Child L	eft Behind 8th
Grade T	echnology Literacy Requirement. Instruction is most effective when	n integrated	with curricular
compone	ents of other academic content areas.		
	Information Literacy K-3	N/A	_
200910	Instruction that includes content in the K-3 portion of Ohio's tech-		
	nology academic content standards and library guidelines.		
	Information Literacy 4-6	N/A	_
200915	Instruction that includes content in the 4-6 portion of Ohio's tech-		
	nology academic content standards and library guidelines.		
	Information Literacy 7-8	N/A	_
200920	Instruction that includes content in the 7-8 portion of Ohio's tech-		
200720	nology standards and library guidelines including Internet search-		
	ing, evaluation of Web sites and other electronic resources.		
	ion literacy codes focus on acquisition, interpretation, and dissem		
	should be based on advanced topics aligned with the 9-12 section of		••
	ontent standards and Library Guidelines. Credit can not be given for	concepts be	low 9th – 12th
grade.			
	Library Science	TEC	
200700	Course focuses on how information is organized, accessed, and		
200700	evaluated, including use of information management systems in		
	school, public, academic, and government libraries.		
	Information Literacy	TEC	_
	Instruction focuses on recognizing the need for information and de-		
	veloping the skills to locate, evaluate and utilize the information.		
	Learning experiences include information retrieval and critical		
200905	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.		

#### **Table 18. Technology Education Codes (10xxxx)**

Subject	Description	Suggested	<b>Core Subject</b>
Code		Subject	Area (for
		Area for	HQT)
		Credit	

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<sup>th</sup> Grade Technology Literacy Requirement. Instruction is most effective when integrated with curricular components of other academic content areas.

Subject	Description	Suggested	<b>Core Subject</b>
Code		Subject	Area (for
		Area for	HQT)
		Credit	
	Technological Literacy K-3	N/A	_
102285	Instruction that includes content in the K-3 portion of Ohio's aca-		
	demic content standards for technology.		
	Technological Literacy 4-6	N/A	_
102290	Instruction that includes content in the 4-6 portion of Ohio's aca-		
	demic content standards for technology.		
102295	Technological Literacy 7-8	N/A	_
	Instruction that includes content in the 7-8 portion of Ohio's aca-		
	demic content standards for technology.		

**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.

	Technology Education	TEC	
	Comprehensive action-based courses concerned with the evolution,		
102300	utilization, and significance of technology and its impact on indus-		
	try, including its organization, personnel, systems, techniques, re-		
	sources, products, and socio cultural aspects.		
	Foundations of Technology	TEC	_
	Prepares students to understand and apply technological concepts		
	and processes that are the cornerstone for the high school technolo-		
	gy program. Group and individual activities engage students in		
	creating ideas, developing innovations and engineering practical		
107450	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.		
101700	Research and Development	TEC	—
	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.		

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.    Issues and Problems in Technology   The study of themes concerning technology, society, and the environment.	Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
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.  Issues and Problems in Technology  The study of themes concerning technology, society, and the environment.  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.  Construction  The study of the technology and the socioeconomic contributions of those industries concerned with residential, civic industrial, civil, and transportation structures.  Home Mechanics  The study of the tools, materials, and processes involved in the upkeep and repair of the home, its equipment and devices.  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.  Manufacturing  Manufacturing  TEC  TEC  TEC  TEC  TEC  TEC  TEC  TE		Design		_
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.  Issues and Problems in Technology  The study of themes concerning technology, society, and the environment.  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.  Construction  The study of the technology and the socioeconomic contributions of those industries concerned with residential, civic industrial, civil, and transportation structures.  Home Mechanics  The study of the tools, materials, and processes involved in the upkeep and repair of the home, its equipment and devices.  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.  Manufacturing  The study of the technology and the socioeconomic contributions of industries concerned with the creation of durable consumer products.  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.  Service Industries  TEC  TEC  TEC  TEC		Course includes design topics from the 9-12 portion of Ohio's technology academic content standards; including identifying and pro-	TEC	
Issues and Problems in Technology   The study of themes concerning technology, society, and the environment.	101720	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,		
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.  Construction  The study of the technology and the socioeconomic contributions of those industries concerned with residential, civic industrial, civil, and transportation structures.  Home Mechanics  Home Mechanics  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.  Manufacturing  Manufacturing  The study of the technology and the socioeconomic contributions of industries concerned with the creation of durable consumer products.  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.  Service Industries  TEC  TEC  TEC  TEC  TEC  TEC  TEC  TE				
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.    Construction	101730	The study of themes concerning technology, society, and the envi-	TEC	
ing, 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.    Construction	Constru		ge and proce	sses in design-
Construction   The study of the technology and the socioeconomic contributions of those industries concerned with residential, civic industrial, civil, and transportation structures.   Home Mechanics   TEC   —	ing, mak ucts to b	ting, developing, producing, using, managing, and assessing of techrouild structures on site. In particular courses that are part of the const	nological syst cruction techn	tems and prod- nology systems
Construction   The study of the technology and the socioeconomic contributions of those industries concerned with residential, civic industrial, civil, and transportation structures.   Home Mechanics   TEC   —	maintain	ing the structure.	_	
those industries concerned with residential, civic industrial, civil, and transportation structures.  Home Mechanics The study of the tools, materials, and processes involved in the upkeep and repair of the home, its equipment and devices.  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.  Manufacturing The study of the technology and the socioeconomic contributions of industries concerned with the creation of durable consumer products.  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.  Service Industries The study of the technology of industries concerned with the maintenance and repair of consumer and/or industrial products.  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 in-		Construction	TEC	
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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.    Manufacturing	100000			
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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.    Manufacturing		• • • • • • • • • • • • • • • • • • • •	•	
tems focus on mechanical design and drafting, materials, and processes (including woods, metals, plastics), production, robotics, and automation systems, and specific trades/crafts.    Manufacturing				
Manufacturing   TEC				
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in the manufacture and construction of products using woods and related factors such as occupations, economics, and consumer in-				
related factors such as occupations, economics, and consumer in-	101900			

•	Description	Suggested	Core Subject			
Code		Subject	Area (for			
		Area for	HQT)			
		Credit				
	Metals Processes	TEC	_			
	Information and skills concerned with metals including the products					
101410	manufactured from metals and the technology employed in the pro-					
	duction, processing, and use of metals, as well as related factors					
	such as occupations, economics, and consumer information.					
	Plastics	TEC				
101500	Information and skills concerned with the production, processing,					
101300	and use of plastics, composites and related factors such as occupa-					
	tions, economics, and consumer information.					
	Industrial Crafts	TEC				
100200	Information and skills concerned with handcrafts and the craft in-					
	dustry, including its tools, materials, processes, products, and occu-					
	pations.					
Commu	Communication Technology Systems: A comprehensive study of the knowledge and process in design-					
ing making developing producing using managing and assessing of technological systems to products						

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.

	5, · · · · · · · · · · · · · · · · · · ·		
	Drafting	TEC	_
400000	Information and skills concerned with conveying ideas or illustra-		
100300			
	graphs, and the related factors such as the role of drafting in history		
	and industry.		
	Electricity/Electronics	TEC	
	Information and skills concerned with electrical energy including		
100401	theory, applications, and control as it relates to electrically powered		
100101	equipment, to various kinds of communications equipment, and to		
	related factors such as occupations, economics, and consumer in-		
	formation.		
	Graphic Arts	TEC	_
100700	The study of information and skills concerned with graphic repro-		
100700	duction, as well as related factors such as occupations, economics,		
	and consumer information.		
	Communications	TEC	—
	Provides an introduction to technical communication systems and		
102000	processes. Students use a variety of technologies and media to		
	create, implement, and evaluate a network to solve a communica-		
	tion problem.		
	Industrial Computer Applications	TEC	
102500	Experiences with computer applications across the technological		
	systems areas. Selected activities covering computer hardware,		
	software, and interface device applications to develop understand-		
	ing of industrial uses of computers.		

Subject	Description	Suggested	Core Subject
Code	Description	Subject	Area (for
Couc		Area for	HQT)
		Credit	11(1)
Energy/	Power/Transportation Technology Systems: A comprehensive st		nowledge and
	in designing, making, developing, producing, using, managing, and	•	•
	to produce products for the transmission of energy and power, and		
	ble. In particular technology courses focus on energy and power sour		
	of energy and power from one form to another, the transmission of e		
	another, and the sale use of power. In addition transportation focuses		
	ransport goods and people.	•	•
	Power Mechanics	TEC	_
101610	Information and skills concerned with the various forms of power,		
	including its generation, transmission, and utilization.		
	Energy/Power/Transmission	TEC	_
	Beginning-level course designed to provide a conceptualized study		
102100	of basic machines. Students obtain a basic understanding and devel-		
	op skills needed to identify, build, maintain, test, and develop ma-		
	chines.		
	ated and Chemical Technology Systems: A comprehensive study of		•
	ning, making, developing, producing, using, managing, and assessing		
	products with bio-related and chemical applications. In particular to		
	application of biological organism and chemical processes to make of		
	process techniques related to agriculture, chemical, and medical techniques		ducts, and the
human interface with technology in managing the artificial and natural environment.			
	Bio-Related and Chemical Technology Systems	TEC	_
	Comprehensive study of the knowledge and process in designing,		
103050	making, developing, producing, using, managing, and assessing of		
	technological systems to produce products with bio-related and		
	chemical applications.		

# **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)
	Environmental and Agricultural Science	CTA	
	A sequence of introductory courses designed to deliver basic know-		
010001	ledge and skills across all disciplines and industries associated with		
	agriculture, horticulture, mechanics, and natural resources. Com-		
	munications, business principles and leadership skill development		
	are essential to the program.	CTA	
	Animal Bioscience	CTA	_
	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		
010150	animals, companion animals and wildlife species. This is an activity		
010130	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 re-		
	sources.		
	Plant and Horticultural Science	CTA	_
	This first course in the pathway focuses on the broad knowledge		
	and skills required to research, develop, produce and market agri-		
	cultural, horticultural, and native plants and plant products. Students		
	will apply principals and practices of plant physiology and anatomy,		
010155	plant protection and health, reproductive biology in plants, influ-		
	ences in bioengineering, plant nutrition and disorders. Environmen-		
	tal aspects of irrigation, chemical application, soils, and pest		
	management will be studied and applied. Projects and activities will		
	enable students to develop communication, leadership, and business		
	management skills.  Agricultural and Industrial Power Technology	СТА	
	Applies principles of engineering in power, construction technology	CIA	
010201	gaining understanding of operation, maintenance, repair of power,		
010201	electrical, hydraulic and mechanical systems. Communications,		
	business principles and leadership skill development are essential.		
	Agribusiness and Production Systems	CTA	_
	Applies principles of economics, business management and market-		
010301	ing in both an entrepreneur/manager and an employee role to the		
	leadership, planning, developing and analyzing of business enter-		
	prises related to agriculture, food and natural resources.		

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	
010610	Greenhouse and Nursery Management The course will apply principles of science, engineering, and business to support the sustainable propagation and production of plants in a commercial nursery or greenhouse facility. Management of soil/media, water and nutrient distribution, lighting, ventilation and temperature, and pests will be learned and applied. Students will demonstrate knowledge of propagation methods, plant health, nutrition, and growth stimulation. Students will develop successful business, communication, marketing, and sales strategies for use in the greenhouse and nursery industries.	CTA	
010615	Landscape Systems Management Students will learn methods for establishing and managing land- scapes to promote growth and balance. The classification and care of woody and herbaceous landscape plants will be covered in-depth. Students will learn to optimize growing conditions, balance nu- trients, and manage pests and disease. Horticultural skills including proper planting, fertilizing, and pruning techniques will be practiced while safely operating well maintained specialized equipment. The implications of landscape installation on the environment will be analyzed and eco-friendly practices applied. Students will employ communication, business, and management strategies appropriate for the industry.	CTA	
010620	Agronomic Systems  This course focuses on the knowledge and skills required to research, develop, produce and market major agricultural and horticultural crops. Cultural and sustainable production practices will be examined. Students will apply scientific knowledge of plant development, nutrition and growth regulation. The knowledge and skills needed to manage water, soils, and pests related to agronomic crops will be learned. Students will employ communication, business, and management strategies appropriate for the industry.	CTA	
010625	Floral Design and Marketing Students will use principles and elements of design to create various types and styles of floral arrangements with natural and artificial plants and plant products. Identification of ornamental plants and cut flowers, use of design materials, and storage and handling applications will be examined. Students will develop successful business, communication, marketing, and sales strategies for use in the floral industry.	CTA	

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
010630	Landscape Design and Build Students will develop skills in landscape planning, design, estimation and installation. Principles and elements of design and engineering will be emphasized. Students will design full-featured landscapes using computer-aided technology, construct hardscapes and install artificial lighting and water systems. Environmental effects of a landscape will be evaluated and eco-friendly techniques applied. Students will employ communication, business, and management strategies appropriate for the industry.	CTA	
010635	Turf Science and Management The course will apply principles of science, engineering, and business to support the establishment and maintenance of residential, athletic and recreational turf. Instruction in establishment, care, production, and marketing of turf grass along with safe operation and maintenance of specialized equipment will be provided. Environmental awareness and conservation practices will be applied. Students will employ communication, business, and management strategies appropriate for the industry.	СТА	
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.	СТА	
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, 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	_
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.	СТА	
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.	СТА	

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

Subject	Description	Suggested	<b>Core Subject</b>
Code		Subject	Area (for
		Area for	HQT)
		Credit	
	<b>Business and Management Foundation (Career Technical)</b>	CTA, BUS	
140001	The foundation course in the business and management cluster of		
	occupations (which includes the career fields of business and ad-		
	ministrative services, finance, information technology, marketing,		
	and hospitality). Can be the foundation component of a career		
	pathway design.		

Subject Code	Description	Suggested Subject	Core Subject Area (for
		Area for Credit	HQT)
	<b>Introduction to Business and Administrative Services</b>	CTA, BUS,	_
	This career field course is based upon the Business and Administra-	TEC	
	tive Services Career Field Technical Content Standards and in-		
140050	cludes content that crosses all pathways of the career field. It is the		
140030	basics course that leads to specialization in one of the career path-		
	ways of Administrative and Professional Support, Legal Manage-		
	ment and Support, Medical Management and Support, and		
	Management.		
	Interdisciplinary Career Field Business Concepts	CTA, BUS	_
	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		
140075	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.	CEA DUG	
	Administrative and Professional Support	CTA, BUS,	_
	Based on a sequence of courses, students will be prepared for ca-	TEC	
	reers which support business operations through a variety of administrative duties including information and communication		
	istrative duties including information and communication management, data processing and collection, and project tracking.		
140300	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.		
	Legal Management and Support	CTA, BUS,	
	Based on a sequence of courses, students will be prepared for ca-		
	reers which facilitate legal operations through a variety of manage-	120	
	ment and administrative duties. Employees in this field are found in		
140310	law firms, courts, court reporting firms, legal departments of corpo-		
	rate businesses, and government regulatory agencies. Sample occu-		
	pations within this pathway include: legal office manager, legal		
	assistant, legal secretary, paralegal, court administrator, compliance		
	analyst, regulatory analyst.		
	Medical Management and Support	CTA, BUS,	_
140320	Based on a sequence of courses, students will be prepared for ca-	TEC	
	reers 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 spe-		
	cialists, benefits coordinators, medical billing specialists, medical		
	records and health information technician, medical office manager,		
	claims processor, and medical coding specialist.		

Subject Code	Description	Suggested Subject	Core Subject Area (for
		Area for Credit	HQT)
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	CTA, BUS, TEC	
	relations, manager, recruiter, training manager.		

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

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.  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.  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.  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.	Subject Code	Description	Suggested Subject	Core Subject Area (for
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.  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.  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.  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,	Couc			,
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.    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.    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.    Electrical Trades   CTA, TEC   CTA, TEC   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,				(-)
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.  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.  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.  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,			CTA, TEC	
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.    Environmental Control Technologies				
struction 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.  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.  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.  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,				
sign, construction management, apprenticeship and specialization areas (e.g., carpentry, electrical, masonry, environmental control technologies, etc.) and post-secondary articulation.  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.  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.  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,	170005			
areas (e.g., carpentry, electrical, masonry, environmental control technologies, etc.) and post-secondary articulation.  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.  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.  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,				
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.  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.  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,				
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.  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.  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,		technologies, etc.) and post-secondary articulation.		
170100 gy framework to introduce concepts of installation, repair and maintenance of residential, commercial, and industrial air-conditioning systems.  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.  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,		0	CTA, TEC	_
tenance of residential, commercial, and industrial air-conditioning systems.  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.  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,				
systems.  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.  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,	170100	1		
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.  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,		•		
Utilizes industry standards and a math, science, ELA and technology framework to introduce concepts of layout, construction and repair of residential and commercial structures.  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,			CTA TEC	
gy framework to introduce concepts of layout, construction and repair of residential and commercial structures.  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,			CIA, IEC	_
pair of residential and commercial structures.  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,	171001			
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,				
gy framework to introduce concepts of layout, assembly, installation, testing, and maintenance of electrical fixtures and apparatus,			CTA, TEC	_
tion, testing, and maintenance of electrical fixtures and apparatus,				
	171002			
and the wiring used in electrical systems.				
Heavy Equipment (Construction)  CTA, TEC —			CTA, TEC	_
Classroom and practical work experiences concerned with the operation, maintenance and repair of heavy-duty construction equipment	171003			
and the gasoline or diesel engines powering the equipment.				

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
171004	<b>Brick, Block and Cement Masonry</b> 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.	СТА	
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	<b>Building Technology</b> 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	
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 (35xxxx)

Subject	Description	Suggested	Core Subject
Code		Subject	Area (for
		Area for	HQT)
		Credit	
	Introduction to Education and Training	CTA	
350001	Provides options for students to explore Education and Training		
	career field to allow students to pursue the career pathways.		
	<b>Teaching Professions</b>	CTA	
350011	Major career courses to prepare students for entry level, technical		
	and professional career option within the teaching professions.		
	Early Childhood Education	CTA	_
350201	Preparation for employment in childcare services, child develop-		
	ment, and early childhood education within the childcare and guid-		
	ance industries.		

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

Subject Code	Description	Suggested	Core Subject
Code		Subject Area for	Area (for HQT)
		Credit	nqı)
	Computational Science and Engineering	CTA, TEC	
	Combined with Engineering Technologies-Emerging (subject code		
171821	171815), utilizes business and industry technical standards and		
1/1821	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.		
	Power Transmission	CTA	_
	Utilizing business and industry technical standards and a math,		
171402	science, ELA, technology and business process framework, devel-		
171402	ops 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.		
	Telecommunications	CTA, TEC	—
	Utilizing business and industry technical standards and a math,		
171504			
	ops technical literacy in the assembly, installation, operation, main-		
	tenance and repair of telecommunications equipment.		
	Engineering Science	CTA, TEC	_
171815	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.		

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
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	
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 preengineering related to robotics, material science and nanofabrication in welding in the Project Lead the Way model and leads to post-secondary articulation.	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.	СТА	
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.		
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	_

Subject Code	Description	Suggested Subject	Core Subject Area (for
		Area for	HQT)
		Credit	
	Engineering Technology	CTA, TEC	_
	Combined with the first course in the pathway and utilizing busi-		
171810	ness and industry technical standards and a math, science, ELA,		
171010	technology framework, introduces concepts of engineering related		
	to mechanical, electrical and industrial engineering and leads to		
	post-secondary education.		
	Biotechnical Engineering	CTA, TEC	_
	Combined with Engineering Science (subject code 171815), utilizes		
171820	business and industry technical standards and a math, science, and		
171020	technology framework to introduce concepts of biotechnical engi-		
	neering, genomics, bioprocesses, agricultural, environmental, and		
	biomedical science in a problem-based format.		
	Engineering Design and Development	CTA, TEC	
171825	Combined with Engineering Science (subject code 171815) and an		
	elective Project Lead the Way Course introduces concepts of for-		
	mal research and design in the construction of a solution to an engi-		
	neering or societal problem.		

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	
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 (360230)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
	Government and Public Administration	CTA	_
360230	Students will focus on those careers that are inherent to govern-		
	ment, as well as other career fields that are utilized in a government		
	and public administration context.		

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

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 operatory, clerical functions, and selected dental laboratory work.	СТА	_
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.	СТА	
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.	СТА	
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.	СТА	_

Subject Code	Description	Suggested Subject Area for	Core Subject Area (for
		Area for Credit	HQT)
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.	СТА	
070303	Nurse Assisting Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process frame- work, introduces concepts, subject matter and clinical experiences in the care of individuals under the supervision of a nurse.	СТА	
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.	СТА	
070307	Home Health Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process frame- work, introduces concepts, subject matter and experiences to assist elderly, convalescent, or handicapped in their homes for daily liv- ing needs.	СТА	
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.	СТА	
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.	СТА	

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
070906	Community Health Aide Utilizing business and industry technical standards, math, science, ELA, social studies and technology with a business process frame- work, instruction includes concepts, subject matter and experience to serve as a liaison between professional health workers and the recipients of health services.	СТА	
070912	work, instruction includes concepts, subject matter and experiences to work in a pharmacy under the supervision of a pharmacist.	CTA	
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.	СТА	_
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.	СТА	
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.		
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.		_

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
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.	СТА	
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	

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

Subject	Description	Suggested	<b>Core Subject</b>
Code		Subject	Area (for
		Area for	HQT)
		Credit	
	Culinary and Food Service Operations	CTA	_
330005	Educational programs in Culinary and Food Service Operations		
330003	prepare learners for careers in the art and science of food prepara-		
	tion and presentation.		
	Lodging	CTA, BUS	_
330010			
	tions of lodging facilities.		

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
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	CTA, BUS	

Table 29. Career Field 11: Human Services Codes (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.	СТА	
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.		_
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.		

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for HQT)
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).		

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

•	Description	Suggested	Core Subject
Code		Subject Area for	Area (for HQT)
		Credit	nqı)
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,	
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.	TEC	_
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	<b>Fire Fighter Training</b> 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.	СТА	
172808	<b>Private Security</b> 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	_
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.	СТА	_
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	_
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.		
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).	СТА	_
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.		
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.	СТА	
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.		
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)
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 market- ing and management. These functions include supply-chain man- agement, marketing-information management, pricing, product/service management, marketing communications, and sell- ing.	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.		_
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	_
042010	Leadership Introductory, project-based course that develops student understanding and skills in such areas as communications, emotional intelligence, self-management, operations and professional development. This is a recommended first course for the High School of Business pathway.	CTA, BUS	_
042015	Wealth Management Project-based course that develops student understanding and skills in such areas as economic decision-making, time value of money, financial management and types of investment. This is a recommended second course for the High School of Business pathway.	CTA, BUS	_
042020	Principles of Business Project-based course that develops student understanding and skills in such areas as business law, economics, financial analysis, human resources management, marketing, operations, information management, and strategic management. This is the recommended third course for the High School of Business pathway.		_
042025	Principles of Economics Introductory, project-based course that develops student understanding and skills in such areas as consumer spending, government politics, economic conditions, legal issues, and global competition. This is the recommended fourth course for the High School of Business pathway.		

•	Description	Suggested	<b>Core Subject</b>
Code		Subject	Area (for
		Area for	HQT)
	Drive similar of Manhatina	Credit CTA, BUS	
	Principles of Marketing Introductory, project-based course that develops student under-	CIA, BUS	
	standing and skills in the functional areas of marketing including		
042030	channel management, marketing information-management, market-		
042030	ing planning, pricing, product/service management, promotion and		
	selling. This is a recommended fifth course for the High School of		
	Business pathway.		
	Principles of Finance	CTA, BUS	
	Project-based course that develops student understanding and skills	,	
	in such areas as accounting and finance including financial state-		
042035	ments, financial ratios, operating and overhead costs, internal con-		
	trols, budgets and corporate financial data analysis. This is the		
	recommended sixth course for the High School of Business path-		
	way.		
	Principles of Management	CTA, BUS	_
	Project-based course that develops student understanding and skills		
0.420.40	in all areas of management including project management, human		
042040	resources management, knowledge management, quality manage-		
	ment, risk management and legal and ethical issues in management.		
	This is the recommended seventh course for the High School of Business pathway.		
	Business Strategies	CTA, BUS	
	Capstone course that requires extensive student decision-making to	CIA, BOS	
042045	finalize marketing, financial and management plans and incorporate		
	them into a business plan. This is the recommended final course for		
	the High School of Business pathway.		
	Entrepreneurship	CTA, BUS	_
044110	Preparation for starting new ventures that create, power and		
044110	change business activity - meaning new markets, new products,		
	new production methods and new businesses.		
	Introduction to Entrepreneurship	CTA, BUS	
044100	Preparation for the early business stages of starting new ven-		
044100	tures that create, power and change business activity — meaning		
	new markets, new products, new production methods and new businesses.		
I	Dushiesses.		

**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.	СТА	_
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.		
170403	Ground Operations This program is geared toward the Airport Environment and activities concerning the ground support of commercial aircraft, terminal and hanger activities.		_
170801	Maritime Occupations Utilizing rigorous academics and Maritime industry standards introduce concepts of deck, engineering and other careers in the maritime industry.	СТА	_

Subject Code	Description	Suggested Subject	Core Subject Area (for
Couc		Area for	HQT)
		Credit	,
	Medium/Heavy Truck Technician	CTA, TEC	
	This program focuses on the service and repair of trucks. Instruc-		
171200	tion includes the diagnosis, maintenance and repair of diesel en-		
1/1200	gines operational systems. ASE areas of concentration are: Diesel		
	Engines, Suspension and Steering, Brakes, Electrical/Electronic		
	Systems and Preventive Maintenance Inspection.		
	Power Equipment Technology	CTA, TEC	
173100	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.		

### **CAREER BASED INTERVENTION SECTION**

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

Subject Code	Description	Suggested Subject	Core Subject Area (for
		Area for Credit	HQT)
250510	<b>CBI Language Arts</b> 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	<b>CBI Reading</b> 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	<b>CBI Social Studies</b> 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	Core Subject Area (for
2042		Area for	HQT)
		Credit	
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.		

### **CAREER DEVELOPMENT SECTION**

#### Table 36. Career Development Codes (99xxxx)

Subject Code	Description	Suggested Subject Area for	Core Subject Area (for HQT)
		Credit	<b>C</b> /
990361	Entrepreneurship (Career Technical)	CTA	
990301	Exploring owning your own business.		
	Employability Skills (Career Technical)	CTA	_
990362	Work related skills for entering, competing and advancing in a		
	changing work world.		

## FAMILY AND CONSUMER SCIENCES (CAREER TECHNICAL) SECTION

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

Subject	Description	Suggested	Core Subject
Code		Subject	Area (for
		Area for	HQT)
		Credit	
	GRADS – Minimum Intervention/Follow-up	CTA	
	Graduation, Reality and Dual-role Skills (GRADS) is an instruc-		
	tional and intervention program for pregnant and parenting stu-		
	dents, male and female. An in-school instructional program for		
	pregnant and parenting students, grades 7-12. The mission is to		
090192	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 ba-		
	lancing work and family, and delay subsequent pregnancies.		

Subject Code	Description	Suggested Subject Area for	Core Subject Area (for HQT)
		Credit	nq1)
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-	CTA	
	development skills, gain orientation to work, set goals toward balancing work and family, and delay subsequent pregnancies.		
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	
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.		_
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.	СТА	
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	

Subject Code	Description	Suggested Subject Area for	Core Subject Area (for HQT)
		Credit	
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.	СТА	
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.	СТА	_
091410	<b>Transitions and Careers</b> Students develop personal assets of a healthy, responsible citizen and family member who are responsible for their academic, career and personal growth.	СТА	
090050	<b>Healthy Food – Middle School</b> 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	
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.	СТА	_
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 wellbeing.	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	<b>IB Mathematics</b> 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	<b>IB Second Language – Spanish</b> 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	<b>IB Information Technology in a Global Society (ITGS)</b> 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	SCI	Science
321330	curriculum.		
	IB Computer Science	TEC	
321600	1		
	curriculum.		
	IB Visual Arts	FAR	Arts
321650	1		
	curriculum.		
	IB Music	FAR	Arts
321700	Based upon the most current International Baccalaureate Program curriculum.		
	IB Theatre Arts	FAR	Arts
321750	Based upon the most current International Baccalaureate Program		
	curriculum.		
	IB Theory of Knowledge	SOC	_
321775			
	curriculum.		

**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	Based upon the most current International Baccalaureate Program curriculum.	N/A	English
322100	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	<b>IB Humanities (Middle Years - Grades 4-6)</b> 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	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)** 

•	Description	Suggested	Core Subject
Code		Subject	Area (for
		Area for	HQT)
		Credit	
	Preschool	NA	_
180108	Preschool program in a self-contained classroom, this includes		
100100	course related to ECE, Federal Head Start, and other local pro-		
	grams.		
180280	Title I Preschool	N/A	_
100200	A preschool program funded with Title I funds.		
180050	Early Education (0-2)	N/A	_
100030	Courses taught to students ages 0-2.		

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."

Subject	Description	Suggested	<b>Core Subject</b>
Code		Subject	Area (for
		Area for	HQT)
		Credit	
	Adaptive Living Skills (K-3)	N/A	—
196350	Basic skills for students with severe motor, sensory, or cognitive		
190330	disabilities that present unique and significant challenges to partici-		
	pation in other courses. Grades K - 3		
	Adaptive Living Skills (4-6)	N/A	_
196360	Basic skills for students with severe motor, sensory, or cognitive		
190300	disabilities that present unique and significant challenges to partici-		
	pation in other courses. Grades 4 - 6		
	Adaptive Living Skills (7-8)	N/A	_
196370	Basic skills for students with severe motor, sensory, or cognitive		
190370	disabilities that present unique and significant challenges to partici-		
	pation in other courses. Grades 7 - 8		
	Adaptive Living Skills (9-12)	N/A	_
196380	Basic skills for students with severe motor, sensory, or cognitive		
	disabilities that present unique and significant challenges to partici-		
	pation in other courses. Grades $9 - 12$ .		

# **OTHER COURSES SECTION**

Table 43. Other Course Codes (30xxxx)

•	Description	Suggested	Core Subject
Code		Subject Area for	Area (for HQT)
		Credit	11(1)
These co	ourses may be included in district programs and/or graduation rec	quirements. I	However, these
	are not aligned with the academic content standards and do not repres	sent courses f	or which credit
toward n	neeting legislated graduation requirements is awarded.		
300010	Career Exploration	ELE	—
300010	Scheduled time for researching career options.		
	Community Service (Volunteer Program)	ELE	—
300020	Scheduled time for volunteer service projects during or outside the		
300020	school day. Note: This course cannot earn credit per ORC		
	§3313.60.5.		
	Study Skills	ELE	—
	Instruction in strategies to improve learning and develop study		
300030			
	limited coverage of new content or the academic content standards		
	for a single or multiple academic areas.		
	School Publications	ELE	—
300040	Scheduled time for production work and related activities of school		
	yearbook. Activities not aligned with the academic content stan-		
	dards and do not earn English Language Arts credit.		

		Wellness	ELE	
		A course that addresses general wellness strategies. Credit earned is		
30	00050	not applied towards meeting graduation requirements for health and		
		physical education due to limited focus on content related to those		
		areas.		

#### **Table 44. Humanities Codes (31xxxx)**

•	Description	Suggested	Core Subject
Code		Subject	Area (for
		Area for	HQT)
		Credit	
Humanit	ies courses may be included in district programs and may be taught	by a teacher	holding a valid
certificat	te or instruction may be provided by a team of teachers that collective	e hold the app	propriate certif-
icates/lic	enses for the content areas included in the course.		
	Humanities (7-8)	N/A	_
310010	The study of cultural achievements through the integration of litera-		
	ture, the arts, religion, history, and philosophy. (for grades 7-8)		
	Humanities	N/A	_
310020	The study of cultural achievements through the integration of litera-		
	ture, the arts, religion, history, and philosophy.		

### Table 45. Driver Education Code (210100)

<b>Subject</b>	Description	Suggested	<b>Core Subject</b>
Code		Subject	Area (for
		Area for	HQT)
		Credit	
210100	Driver Education	ELE	
	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.		

#### Table 46. ROTC Military Science Code (220000)

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