



2019-2020 Killeen ISD

COURSE SELECTION GUIDEBOOK

Academic, Career and Post-Secondary Handbook for
Students and Parents

A Publication of the Departments of Secondary Curriculum and Guidance & Counseling

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Course Selection Guide

High School Instructional Program 2019-2020

A Publication of the Departments of Academic Services, Secondary Curriculum, and Guidance & Counseling

How to use this Course Selection Guide

This document represents the most current information available and is subject to revision. Revisions are posted on the KISD web site www.killeenisd.org under the Guidance & Counseling Department. Use the bookmarked items or the "Find" feature to search for courses.

- Bookmarked items: On the PDF, right click and choose 'Show Navigation Pane Buttons'. Look for the  symbol for bookmarks and click on the symbol. From there you can select the topic needed.
- Find: Enter a course number, course name or phrase in the Navigation search and click "enter." Continuing to click enter will go to the next page where this number or name is used.

This course selection guide is designed to help you and your parents design a program of instruction suited to your needs. Please take time to study the descriptions of courses before you meet with your counselor to schedule classes. Student worksheets have been provided for your use. This guide may have courses listed that will not be offered next school year for various reasons. Any new courses to be offered will be added after Board of Trustee approval. For information about scheduling and/or registration, please call your counselor for guidance at the appropriate number listed on the High School Campus & District Information page.

Notes

H	Honors
P-AP	Pre Advanced Placement
AP	Advanced Placement
DC	Dual Credit

Prerequisites

*Prerequisites require a successful completion.

*Honors, P-AP, Dual Credit and AP have been identified as meeting the needs of TAG students.

The Killeen Independent School District does not discriminate on the basis of race, color, national origin, gender, disability, or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Professional Standards Administrator, 200 North WS Young Drive, Killeen, TX. 76543, [254-336-0000](tel:254-336-0000).

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Course Selection Guide

- The following abbreviations will be used:
H = Honors, P-AP = Pre Advanced Placement, AP = Advanced Placement, and DC = Dual Credit.
- Courses listed with CC will be taught at the Killeen ISD Career Center.
- Courses with an AC are considered CTE advanced courses.
- Prerequisites, if listed are required unless preceded by “Recommended”.
- Recommended prerequisites are used to ensure the student has the necessary skills to complete the course work.
Successful completion of all prerequisites is required with only the immediate prerequisite listed. i.e. Spanish IV requires successful completion of Spanish III, Spanish III requires completion of Spanish II, and Spanish II requires Spanish I.
- All courses listed as I – IV will be taken in order. Ex. Prerequisite for Music III Band is the previous level, Music II Band and prerequisite for Music II Band is Music I Band.
- Honors, P-AP, AP and Dual Credit courses have been identified as meeting the needs of TAG students.
- All Advanced Placement (AP) courses must be approved by the College Board. Please see your guidance counselor about availability at your school.
- Note: Dual Enrollment Courses are offered on high school campuses through Central Texas College (CTC). Students must enroll at CTC to obtain college credit. Dual Enrollment courses carry the highest grade points.

On-Line Learning

Killeen ISD is pleased to offer both distance learning through the Texas Virtual School Network (TxVSN), and local online courses to our students. Please visit with a guidance counselor for participation guidelines.

TxVSN, a state virtual network, provides supplemental, online courses for all Texas students. Teachers in other Texas school districts, open enrollment charter schools, Education Service Centers, and institutions of higher education offer courses that correspond with the traditional sixteen-week semester schedule. A fee is required for each semester course provided through the TxVSN. Fees for TxVSN courses usually range from \$250 to \$400 depending on the subject and /or provider. Priority enrollment is given to students who need to take courses required for high school graduation. To view the available TxVSN Electronic courses, visit the TxVSN website at <http://www.txvsn.org>, and click the TxVSN Catalog.

Each high school campus also provides opportunities for students to participate in “blended” online courses managed by a Killeen ISD teacher. The teacher is usually located at the same campus as the student, which enables the teacher to provide direct instruction or tutorials to assist the student with the content of the online course work. Students may complete assignments and lesson quizzes at school or at home, but tests and the semester examination must be completed at school. Course completion is not limited by a semester time line. There is no fee for local online course work. Both credit recovery and credit advancement course work is available at each high school campus. Participation guidelines for online learning are established by the high school campus according to district guidelines, available resources, and personnel.

English Language Arts

Note: Graduation requirements for Limited English Proficient (L.E.P) students in English may be satisfied by completing English I & II for Speakers of Other Languages as substitutes for English I & II and subsequently completing English III and IV.

Note: Dual Enrollment Courses are offered on high school campuses through Central Texas College (CTC). Students must enroll at CTC to obtain college credit. Dual Enrollment courses carry the highest grade points.

ENGLISH I [1102]

ENGLISH I P-AP [1143]

ENGLISH I P-AP (TAG) [1144] (Enrollment in TAG)

ENGLISH I MOD [5901] (ARD Committee Approval)

Placement: 9-12 Credits: 1 PEIMS: 03220100 Prerequisite: None

Students will study the integrated approach to language, literature, and writing, using the writing process. Special emphasis will be given to language, sentence structure, mechanics, usage, spelling, vocabulary development, as well as literary devices. Students will write compositions, read short stories, plays, and novels, and study the mechanics of grammar through long-term projects, cooperative learning, and research.

ENGLISH I FOR SPEAKERS OF OTHER LANGUAGES [1100]

Placement: 9-12 Credits: 1 PEIMS: 03200600 Prerequisite: Departmental screening; Documentation as

Limited English Proficiency Student; Identified as Immigrant

ESOL students will develop listening, speaking and writing skills using an integrated approach to language, literature, and writing. Special emphasis will be given to daily communication and survival and study skills using sentence structure, mechanics, usage, spelling, and vocabulary development. Expectations apply to the second language learner at his/her level of proficiency.

ENGLISH II [1103] HS & CC

ENGLISH II P-AP [1161] HS & CC

ENGLISH II P-AP (TAG) [1162] (Enrollment in TAG)

ENGLISH II MOD [5905] (ARD Committee Approval)

Placement: 10-12 Credits: 1 PEIMS: 03220200 Prerequisite: Recommend English I

Students will develop writing concepts and skills in writing, language, and literature. Major topics of instruction will include the short story, the novel, the essay, short stories, drama and poetry. A complete study of grammar, vocabulary development and the mechanics of writing will also be covered. Students will also develop research skills.

ENGLISH II FOR SPEAKERS OF OTHER LANGUAGES [1101]

Placement: 10-12 Credits: 1 PEIMS: 03200700 Prerequisite: Departmental screening;

Documentation as Limited English Proficiency Student; Identified as Immigrant

This course will focus on a thematic approach to literature, integrating the writing process. Students will study the elements of literature and review reading and writing skills along with test taking strategies. The course will also include reference and research preparation. Expectations apply to the second language learner at his/her level of proficiency.

ENGLISH III [1104] HS & CC

ENGLISH III P-AP [1176] HS & CC

ENGLISH III MOD [5906] (ARD Committee Approval)

Placement: 11-12 Credits: 1 PEIMS: 03220300 Prerequisite: Recommend English II

Students will develop concepts and skills in writing, language, literature, and reading through the process approach. Major topics of instruction will include essays, novels and vocabulary development. American Literature from its inception through the mid-nineteenth century will be covered. A research and critical analysis project will be completed. American literature in the late 19th and 20th centuries will be studied; modern American drama will be included.

ENGLISH III DC [1196] HS & CC

Placement: 11-12 Credits: 1 PEIMS: 03220300 Prerequisite: Recommend English II; Acceptance to CTC

College Credits: ENGL1301/1302 6hrs

Note: Students must complete ENG 1301 in the Fall semester with a "C" or better in order to take ENG 1302 in the Spring semester.

Students will develop concepts and skills in writing, language, literature, and reading through the process approach. Major topics of instruction will include essays, novels and vocabulary development. American literature from its inception through the mid-nineteenth century will be covered. A research and critical analysis project will be completed. American literature in the late 19th and 20th centuries will be studied; modern American drama will be included.

AP ENGLISH LANGUAGE & COMPOSITION (III) [1136]

AP ENGLISH LANGUAGE & COMPOSITION (III) (TAG) [1185] (Enrollment in TAG)

Placement: 11-12 Credits: 1 PEIMS: A3220100 Prerequisite: Recommend English II

This advanced placement course allows students to become skilled readers of prose written in a variety of periods, disciplines and contexts and to become skilled writers who compose for a variety of purposes. Students will write a variety of forms-narrative, exploratory, expository, and argumentative and on a variety of subjects. The overarching purpose is to enable students to write effectively and confidently. All students will be expected to take the Advanced Placement Exam for Language and Composition.

English Language Arts Continued

ENGLISH IV [1105] HS & CC

ENGLISH IV MOD [1187] (ARD Committee Approval)

Placement: 11-12 Credits: 1 PEIMS: 03220400

Prerequisite: Recommend English III

Students will review grammar as needed. Students will complete a critical analysis paper and will write essays with emphasis on the composing process, with a variety of audiences, and appropriate introductory, transition, and concluding elements. Students will study English literature and the history of the English language from the Anglo-Saxon period through the present day.

ENGLISH IV DC [1190] HS& CC

Placement: 11-12 Credits: 1 PEIMS: 03220400

College Credits: ENGL2322/2323 6hrs

Prerequisite: English 1196 with a "C" or better each Sem

This course includes a study of the principles and techniques of written compositions including sentence structure, paragraph development, and paper organization. The development of critical thinking as it applies to the textual analysis of expository prose is also stressed. The course emphasizes in more depth the principles and techniques of written compositions. Focus of compositions is on the development of critical thinking as it relates to the textual analysis of literary genres: the short story, poetry, drama, and the novel. Formal research paper is required.

AP ENGLISH LITERATURE & COMPOSITION IV [1137]

AP ENGLISH LITERATURE & COMPOSITION IV (TAG) [1197] (Enrollment in TAG)

Placement: 11-12 Credits: 1 PEIMS: A3220200

Prerequisite: Recommend English III or AP English Language & Composition

This course is designed to prepare students to take the College Board Advanced Placement Literature and Composition test. Students will study writing, language, and literary concepts and skills. Students will read and will write about recognized works of literary merit and will also produce original work. Skills in reading, analyzing, classifying, and evaluating will be developed. Major topics of instruction will include rhetorical writing, poetry, drama, and both classic and contemporary novels. A research project will be completed. All students enrolled will be expected to take the AP test. Students who successfully complete this test may be awarded college credit at the discretion of the college.

ENGLISH ALT I - VIII [4401, 4402, 4403, 4404, *4405, *4406, *4447, *4462] or [4601, 4602, 4603, 4604, *4605, *4606, *4647, *4662]

(ARD Committee Approval)

Placement: 9-12 Credits: 1 each PEIMS: 03220107, 03220207, 03220300, 03220400, *84000114, *84000115, *84000116, *84000117

These courses will concentrate on increasing reading and literacy skills necessary for normal life activities

ANALYSIS OF VISUAL MEDIA [1109]

Placement: 11-12 Credits: 0.5 PEIMS: 03221700

Prerequisite: None

This course integrates film analysis and writing. Several film classics will be used to develop and recognize standards for film analysis, as well as emotional and intellectual effects on viewers. Because class time is required for film viewing, students should be prepared for homework assignments and papers.

JOURNALISM I [1113]

Placement: 9-12 Credits: 1 PEIMS: 03230100

Prerequisite: None

This course provides a broad overview of basic print journalism skills as well as historical, legal, and ethical concerns of the profession. Students will be responsible for completing performance-based assignments to include interviewing, journalistic writing, graphics, design, layout, printing, advertising and desktop publishing. Special emphasis is given on the meeting of deadlines with quality performance.

JOURNALISM I [1330]

Placement: 9-12 Credits: 0.5 PEIMS: 03230100

Prerequisite: None

This course provides a broad overview of basic print journalism skills as well as historical, legal, and ethical concerns of the profession. Students will be responsible for completing performance-based assignments to include interviewing, journalistic writing, graphics, design, layout, printing, advertising and desktop publishing. Special emphasis is given on the meeting of deadlines with quality performance.

ADVANCED BROADCAST JOURNALISM I & II [1121, 1122]

Placement: 10-12 Credits: 1each PEIMS: 03231900, 03231901

Prerequisite: None

These courses provide a broad overview of basic broadcast journalism skills as well as historical, legal, and ethical concerns of the profession. Students will be responsible for completing performance-based assignments to include radio show projection, control room procedure, script writing, performance, equipment crew techniques, advertising, news strategies, and programming. Students will analyze their own work and evaluate career possibilities in the field.

English Language Arts Continued

ADVANCED JOURNALISM I, II & III [1114, 1115, 1116] YEARBOOK PRODUCTION

Placement: 10-12 Credits: 1 each PEIMS: 03230110,03230120, 03230130 Prerequisite: Basic computer and English skills highly recommended

These are laboratory courses in producing the school yearbook. Students will be taught and then will implement the requirements for publication to include performance-based activities in organization, format, selection of materials (for content), preparation of copy, and desktop publishing. Special emphasis is placed upon meeting deadlines with quality performance.

ADVANCED JOURNALISM I, II & III [1117, 1118, 1119] NEWSPAPER PRODUCTION

Placement: 10-12 Credits: 1 each PEIMS: 03230140,03230150, 03230160 Prerequisite: Basic computer and English skills highly recommended

These are laboratory courses in producing the school newspaper. Students will be taught and then will implement the requirements for publication to include performance-based activities in organization, format, selection of materials (for content), preparation of copy, and desktop publishing. Special emphasis is placed upon meeting deadlines with quality performance.

PHOTOJOURNALISM [1120]

Placement: 11-12 Credits: 1 PEIMS: 03230800 Prerequisite: None

Students will study photographic composition, use of the camera, and film processing in a journalistic setting. Techniques such as framing, silhouette use of depth of field, and suggestion of motion will be included. Students will produce photographs for the newspaper and yearbook.

PHOTOJOURNALISM [1333]

Placement: 11-12 Credits: 0.5 PEIMS: 03230800 Prerequisite: None

Students will study photographic composition, use of the camera, and film processing in a journalistic setting. Techniques such as framing, silhouette use of depth of field, and suggestion of motion will be included. Students will produce photographs for the newspaper and yearbook.

CREATIVE WRITING [1329]

Placement: 10-12 Credits: 1 PEIMS: 03221200 Prerequisite: None

This course will require students to write short stories, poems, drama, and essays as they practice various writing strategies. Students will use the writing process and develop and apply criteria for self and peer evaluation. Course may be used as EOC remediation.

CREATIVE WRITING [1327]

Placement: 10-12 Credits: 0.5 PEIMS: 03221200 Prerequisite: None

This course will require students to write short stories, poems, drama, and essays as they practice various writing strategies. Students will use the writing process and develop and apply criteria for self and peer evaluation. Course may be used as EOC remediation.

LITERARY GENRE [1334]

Placement: 11-12 Credits: 1 PEIMS: 03221500 Prerequisite: Recommended English II

This course will study works associated with a specific genre or theme to study how fictional and literary elements are employed by an author. Students would study how that genre is represented across cultures.

LITERARY GENRES [1108]

Placement: 11-12 Credits: 0.5 PEIMS: 03221500 Prerequisite: Recommended English II

This course will study works associated with a specific genre or theme to study how fictional and literary elements are employed by an author. Students would study how that genre is represented across cultures.

PRACTICAL WRITING [1001]

Placement: 9-12 Credits: 1 PEIMS: 03221300 Prerequisite: None

This course will focus on the recursive nature of the writing process, the use of Standard English grammar and conventions, and the effective use of vocabulary in various written products. Course may be used for EOC remediation.

PRACTICAL WRITING [1332]

Placement: 9-12 Credits: 0.5 PEIMS: 03221300 Prerequisite: None

This course will focus on the recursive nature of the writing process, the use of Standard English grammar and conventions, and the effective use of vocabulary in various written products. Course may be used for EOC remediation.

RESEARCH/TECHNICAL WRITING [1214]

Placement: 9-12 Credits: 1 PEIMS: 03221100 Prerequisite: None

Students will study writing as a process and various writing strategies while preparing various written products for different disciplines and conferencing with the teachers and peers about how to improve their own and their peer-written products.

English Language Arts Continued

RESEARCH/TECHNICAL WRITING [1335]

Placement: 9-12 Credits: 0.5 PEIMS: 03221100 Prerequisite: None

Students will study writing as a process and various writing strategies while preparing various written products for different disciplines and conferencing with the teachers and peers about how to improve their own and their peer-written products.

READING I [1124]

Placement: 9-12 Credits: 1 PEIMS: 03270700 Prerequisite: None

This course is designed to help high school students achieve success in high school. Emphasis is placed on enhancing reading skills, study and test taking skills, reading in various subject areas and improving reading comprehension. Writing skills are practiced and developed through the term. Computers are used periodically to help develop these reading and writing skills.

READING II [1127]

Placement: 10-12 Credits: 1 PEIMS: 03270800 Prerequisites: None

This class is to help improve students reading and writing abilities while preparing for the reading portion of the required state assessments. Students will concentrate on state assessment practice passages and developing test taking skills. Students who are in the 11th and 12th grades, who have taken, but not mastered, the reading portion of the state assessment are encouraged to enroll in this class. Emphasis will be on practicing and improving overall reading skills.

READING III [1129]

Placement: 11-12 Credits: 0.5 PEIMS: 03270900 Prerequisite: None

This course is designed to improve reading comprehension, build speed, and increase vocabulary. Study skills and advanced test taking tips will be taught. This course is good preparation for college level academic work.

READING I – III DYSLEXIA [1152, 1170, 1173]

Placement: 9-12 Credits: 1each PEIMS: 03270700,03270800, 03270900 Prerequisite: Placement by District Screening Committee

This is a highly individualized course designed to help high school dyslexia students achieve success in high school. Emphasis is placed on developing reading skills, study and test-taking skills, reading in the subject areas and writing skills. Students will have access to computers and other tools that will help to compensate for the dyslexia.

READING IV DYSLEXIA [1325]

Placement: 12 Credits: 1 PEIMS: 03221800 Prerequisite: Placement by District Screening Committee

Introduction of new material, review of previously taught information and practical applications in Reading, Reading Comprehension, Spelling and Composition are taught. The students are taught the mechanics of written English, including the rules of grammar and usage. Individualized Phonemic multisensory instruction is provided in order to meet the specific learning needs of each individual in a small group setting. Instruction is directed toward purposeful reading and writing, with an emphasis on comprehension and composition.

READING MOD I - IV [1150, 1168, 1182, *1194] (ARD Committee Approval)

Placement: 9-12 Credits: 1 each PEIMS: 03270700, 03270800, 03270900, *84000RDG

Reading concepts and strategies will be taught through the reading of fiction and nonfiction, and students will write in response to their reading. The goal of these courses is to enable students to become independent readers. Students in the course require modified, direct and intensive instruction in order to acquire, maintain, and transfer skills to other contexts. ARD committee approval is required for enrollment to this course and the student's IEP must contain standards-based IEP goals indicating modified content is required to access the grade-level curriculum.

COLLEGE PREPARATORY ENGLISH [1336]

Placement: 12 Credits: 1 PEIMS: CP110100 Prerequisite: Identified as not being college ready

This course is designed to meet the needs of students who reach grade 12 without passing the English I EOC or English II EOC. Students enrolled in this course have not met the college readiness standard based on TSI scores or PSAT/SAT scores. The content of this course focuses on literacy skills including reading and writing and those skills necessary to pass the English I EOC or English II EOC.

BASIC ENGLISH [1157]

Placement: 9-12 Credits: 1 PEIMS: *84000102 Prerequisite: Departmental screening; Documentation as Limited English Proficiency Student; Identified as Immigrant

Note: Local credit only; may not substitute for credit in English.

This course is designed for the ESOL student to gain oral and written fluency. Standardized Test preparation is included with emphasis on writing and advanced reading skills. This year long course can be taken concurrently with regular English, or to be followed by regular English. This course is designed for ESOL students who have scored below the 40th percentile on either the reading or language arts portion of a standardized achievement test or have not achieved passing scores on the current Standardized Test.

Speech

COMMUNICATION APPLICATIONS [6307] HS & CC

Placement: 9-12 Credits: 0.5 PEIMS: 03241400 Prerequisite: None

Students enrolled in Communication Applications will be expected to identify, analyze, develop, and evaluate communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations.

COMMUNICATION APPLICATIONS DC [6322] ECHS, HS & CC

College Credits: SPCH 1315 3 hrs

Placement: 9-12 Credits: 0.5 PEIMS: 03241400 Prerequisite: None

Course encompasses both theory and practice of communicating with others and includes research, composition, organization, and delivery of speeches for various purposes and occasions.

PROFESSIONAL COMMUNICATIONS [7526]

Placement: 9-12 Credits: 0.5 PEIMS: 13009900 Prerequisite: None

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

ORAL INTERPRETATION I [6300]

ORAL INTERPRETATION II [6301]

ORAL INTERPRETATION III [6302]

Placement: 9-12 Credits: 1 each PEIMS: 03240200, 03240300, 03240400 Prerequisite: Recommend previous level course

In oral interpretation I, II and III, students study the oral reading of a literary text as a communication art. Students will select, research, analyze, adapt, interpret, and perform literary texts. Both individual and group performances of literature will be presented. This class requires a commitment to activities outside the school day such as speech tournaments and public performances.

DEBATE I (H) [6311]

DEBATE II (H) [1252]

DEBATE III (H) [1253]

Placement: 9-12 Credits: 1 each PEIMS: 03240600, 03240700, 03240800 Prerequisite: Recommend previous level course

Focus in learning formal debate along with developing more deeply their logical argumentation skills. This is a difficult study which requires much discipline and time spent outside of class doing research and attending weekend tournaments. This course would also teach the oral performance of literature, which would be in keeping with our fine arts focus.

PUBLIC SPEAKING I [6319]

PUBLIC SPEAKING II [6320]

PUBLIC SPEAKING III [6321]

Placement: 9-12 Credits: 1 each PEIMS: 03240900, 03241000, 03241100 Prerequisite: Recommend previous level course

In order to have full participation in the civic process, students must have a good understanding of public dialogue. Students must learn the concepts and skills related to preparing and presenting public messages and to analyzing and evaluating the messages of others. Within this process, students will gain skills in reading, writing, speaking, listening, and thinking and will examine areas such as invention, organization, style, memory, and delivery.

Independent Study in Speech [6317]

Independent Study in Speech–Public Speaking IV [6324]

Independent Study in Speech – Debate IV [6325]

Placement: 9-12 Credits: 1 PEIMS: 03241200 Prerequisite: None

Independent Study in Speech provides opportunities for advanced students to plan, organize, produce, perform, and evaluate a project that enables them to develop advanced skills in communication, critical thinking, and problem solving.

Mathematics

Note: Dual Enrollment Courses are offered on high school campuses through Central Texas College (CTC). Students must enroll at CTC to enroll college credit. Dual Enrollment Courses carry the highest grade points.

ALGEBRA I [3350]

ALGEBRA I MOD [5902] (ARD Committee Approval)

Placement: 9-12 Credits: 1 PEIMS: 03100500 Prerequisite: Grade 8 Math or equivalent

Algebra is the entry-level mathematics course for ninth graders who did not successfully complete it as eighth graders. Students will solve equations, inequalities, systems of equations/inequalities that arise from mathematical/real world situations. Graphing will be stressed. Students will analyze, solve and/or justify solutions using technology as a tool where appropriate.

ALGEBRA I P-AP [3382]

Placement: 9-12 Credits: 1 PEIMS: 03100500 Prerequisite: Grade 8 Math or equivalent

This course is designed for students who are interested in pursuing upper level mathematics and science. Students will apply algebraic concepts to real world situations. Topics of instruction will include equations, inequalities, systems of equations/inequalities and graphing. Students will analyze, solve and/or justify solutions using technology as a tool where appropriate.

ALGEBRA I ALT [4419 or 4619] (ARD Committee Approval)

Placement: 9-12 Credits: 1 PEIMS: 03100507 Prerequisite: Grade 8 Math or equivalent

This course will focus on the acquisition of the knowledge of algebraic skills necessary for normal life activities.

GEOMETRY [3353]

GEOMETRY MOD [5912] (ARD Committee Approval)

GEOMETRY ALT [4420 or 4620] (ARD Committee Approval)

Placement: 9-12 Credits: 1 PEIMS: 03100700 Prerequisite: Algebra I

This course will enable students to apply geometric properties to real-world situations. Applications will be integrated throughout the course. Models will be used whenever appropriate to introduce concepts. Formal proof will be used in the sequential development of geometric concepts as follows: concrete experience, intuitive understandings, generalizations, reasoning activities, and formal proof. Students will work with synthetic, transformational and coordinate geometry as appropriate.

Student in Geometry ALT courses will focus on the acquisition of the knowledge of Geometry skills necessary for normal life activities including home and family living skills.

GEOMETRY P-AP [3394]

Placement: 9-12 Credits: 1 PEIMS: 03100700 Prerequisite: Algebra I

This course is designed for students who are interested in pursuing upper level mathematics and science. Students will apply geometric properties to real-world situations and related scientific theory, explore other geometries, and create their own geometry. Applications will be integrated throughout the course. Models will be used whenever appropriate to introduce concepts. Formal proof will be used in the sequential development of geometric concepts as follows: concrete experience, intuitive understandings, generalizations, reasoning activities, and formal proof. Students will work with synthetic, transformational and coordinate geometry.

MATHEMATICAL MODELS WITH APPLICATIONS [3355]

MATHEMATICAL MODELS WITH APPLICATIONS [3397] (ARD Committee Approval)

Placement: 10-12 Credits: 1 PEIMS: 03102400 Prerequisite: Algebra I

In this course students will use a variety of representations (concrete, numerical, algorithmic, and graphical), tools and technology to link modeling techniques and purely mathematical concepts to solve problems

DISCRETE MATHEMATICS FOR PROBLEM SOLVING [3572]

Placement: 11-12 Credits: 1 PEIMS: 03102520 Prerequisite: Algebra II and recommend Geometry

Students are introduced to the improved efficiency of mathematical analysis and quantitative techniques over trial-and-error approaches to management problems involving organization, scheduling, project planning, strategy, and decision making. Students will research mathematicians of the past whose work is relevant to these topics today and read articles about current mathematicians who either teach and conduct research at major universities or work in business and industry solving real-world logistical problems. Through the study of applications of mathematics to society's problems today, students will become better prepared for and gain an appreciation for the value of a career in mathematics.

MATHEMATICAL APPLICATIONS IN AGRICULTURE, FOOD, AND NATURAL RESOURCES [7960]

Placement: 12 Credits: 1 PEIMS: 13001000 Prerequisite: Algebra I; Recommend 1 credit Ag, Food & Natural Resources

To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts.

Mathematics Continued

ALGEBRA II [3352] HS & CC

ALGEBRA II MOD [5911] (ARD Committee Approval)

ALGEBRA II ALT [4422/4622] (ARD Committee Approval)

Placement: 9-12 Credits: 1 PEIMS: 03100600 Prerequisite: Algebra I and recommend Geometry

Basic concepts of algebra will be reviewed. Students will study complex numbers, systems of linear functions and relations, linear equations and inequalities, graphs in two and three variables, non-linear equations, basic properties of matrices and quadratic relations and systems. Logarithms and exponential functions will be introduced.

Students in Algebra II ALT will focus on the acquisition of the knowledge of algebraic skills necessary for normal life activities.

ALGEBRA II P-AP [3391] HS & CC

Placement: 9-12 Credits: 1 PEIMS: 03100600 Prerequisite: Algebra I and recommend Geometry

Students will prove theorems about real numbers and learn concepts and skills related to open sentences, polynomials and rational expressions, matrices and determinants, quadratic functions, conic sections, and systems of quadratics. Major topics of instruction will include properties of relations and function of the complex number system and points and planes in space. In addition, students will study concepts and skills relating to exponential and logarithmic functions, to higher degree polynomial functions, and to sequences and series. They will also calculate permutations, combinations, and probabilities. Major topics of instruction will include properties and applications of trigonometric and circular functions. The laws of cosines and sines will be studied.

PRECALCULUS [3354] HS & CC

Placement: 10-12 Credits: 1 PEIMS: 03101100 Prerequisite: Algebra I, Geometry, Algebra II

Real numbers and coordinates, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, and trigonometric functions will be introduced in the third six weeks. Students will study analytic geometry and elementary analysis. The material covered will be that of a college course that includes translating and rotating graphs, determining zeroes, polynomial functions and designing mathematical games.

PRECALCULUS P-AP [3401] HS & CC

Placement: 10-12 Credits: 1 PEIMS: 03101100 Prerequisite: Algebra I, Geometry, Algebra II

This is an advanced mathematics course that is fast paced and includes instruction in real numbers and coordinates, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, and trigonometric functions. Students will study analytic geometry and elementary analysis. The material covered will be that of a college course that includes translating and rotating graphs, determining zeroes, polynomial functions and designing mathematical games.

ADVANCED QUANTITATIVE REASONING [3568]

Placement: 11-12 Credits: 1 PEIMS: 03102510 Prerequisite: Geometry and Algebra II

This course will prepare students for successful college entry assessments and provide mathematics instruction for non-math-intensive college majors, technical training, and a range of career options.

IND ST MATH COLLEGE ALG [3563]

CollegeCredits: MATH 1314 3hrs

Placement: 10-12 Credits: 0.5 PEIMS: 03102500 Prerequisite: Geometry and Algebra II; Acceptance to CTC

A study of relations and functions, polynomial functions and equations of degree higher than two, exponential and logarithmic functions and equations, matrices, and determinants, sequences and series, the binomial theorem, and mathematical induction.

INDEPENDENT STUDY MATH COLLEGE ALGEBRA DC [3561]HS&CC

College Credits: MATH 1414 4hrs

Placement: 10-12 Credits: 0.5 PEIMS: 03102500 Prerequisite: Geometry and Algebra II; Acceptance to CTC

NOTE: This college math course is the prerequisite for Independent Study Math Pre-Calculus [3562]

A study of relations and functions, polynomial functions and equations of degree higher than two, exponential and logarithmic functions and equations, matrices, and determinants, sequences and series, the binomial theorem, and mathematical induction.

INDEPENDENT STUDY MATH PRE-CALCULUS DC [3562] HS & CC

College Credits: MATH2412 4hrs

Placement: 10-12 Credits: 0.5 PEIMS: 03102500 Prerequisite: Ind St in Math College Algebra [3561] with a "C" or better

This is a fast-paced course which includes instruction in real numbers and coordinates, functions and their graphs, polynomial, rational, exponential, logarithmic, and trigonometric functions. Students will study analytic geometry and elementary analysis. The material covered will include translating and rotating graphs, determining zeroes, and polynomial functions.

Mathematics Continued

INDEPENDENT STUDY IN MATH 2 - STATISTICS [3559]

Placement: 11-12 Credits: 0.5 PEIMS: 03102501 Prerequisite: Geometry and Algebra II

This course extends students' mathematical understanding beyond the Algebra II level to mathematical topics such as descriptive statistics, probability, surveys, and inference testing for single samples. This course is intended for those students who wish to have some background in statistics before entering college (or the work force). This course will prepare students for future success in a college statistics course, as well as offer an appreciation of statistical situations in advertising, politics, research, and the media.

INDEPENDENT STUDY IN MATH 2 - TRIGONOMETRY [3560]

Placement: 11-12 Credits: 0.5 PEIMS: 03102501 Prerequisite: Geometry and Algebra II

This course is a comprehensive study of trigonometry and its real-world usage. Includes but is not limited to right triangle applications, trigonometric functions and their applications, trigonometric identities and equations, trigonometric graphs, and vectors. This course will provide students with practical usage of the trigonometric concepts in preparation for entry level college math courses or the work force.

INDEPENDENT STUDY IN MATHEMATICS 3 – DIFFERENTIAL EQUATIONS [3582] College Credits: MATH 2320 3hrs *STEM Academy

Placement: 11-12 Credits: 0.5 PEIMS: 03102502 Prerequisite: Geometry and Algebra II; Acceptance to CTC

This college course will focus on the first and second order differential equations and their applications.

STATISTICS [3574]

Placement: 11-12 Credits: 1 PEIMS: 03102530 Prerequisite: Algebra I

Students will broaden their knowledge of variability and statistical processes. Students will study sampling and experimentation, categorical and quantitative data, probability and random variables, inference, and bivariate data. Students will connect data and statistical processes to real-world situations. In addition, students will extend their knowledge of data analysis.

ALGEBRAIC REASONING [3576]

ALGEBRAIC REASONING MOD [5917] (ARD Committee Approval)

ALGEBRAIC REASONING ALT [4421/4621] (ARD Committee Approval)

Placement: 10-12 Credits: 1 PEIMS: 03102540 Prerequisite: Algebra I

Students will continue to develop mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses. Students will study functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets.

Students in Algebraic Reasoning ALT will focus on the acquisition of the knowledge of algebraic skills necessary for normal life activities.

AP STATISTICS [3369]

Placement: 11-12 Credits: 1 PEIMS: A3100200 Prerequisite: Recommend Algebra II and Geometry

In this course students will analyze and evaluate data graphically and/or numerically in order to make informed decisions. A variety of methods, tools and models will be studied. All students will be expected to take the AP Exam for Statistics.

AP CALCULUS (AB) [3367]

Placement: 11-12 Credits: 1 PEIMS: A3100101 Prerequisite: Precalculus

This course will include the study of functions, limits, continuity, differentiation, the Mean Value Theorem, applications of differentiation, integration, the Fundamental Theorem of Calculus, differential equations, applications of integration, and transcendental functions. All students enrolled will be expected to take the AP test.

AP CALCULUS (BC)[3368]

Placement: 11-12 Credits: 1 PEIMS: A3100102 Prerequisite: Precalculus

This course continues the study of topics from Calculus AB as well as advanced topics from Integral Calculus to include the study of sequences and series. All students enrolled will be expected to take the AP test.

AP COMPUTER SCIENCE A [7408]

Placement: 11-12 Credits: 2 PEIMS: A3580110, A3580120 Prerequisite: Recommend Computer Science I or Algebra II

Note: This course qualifies as 1 **mathematics** credit and as 1 **LOTE** credit

Students will study advanced computer science topics and advanced programming techniques using Java. Topics covered will include arrays, strings, linked lists, binary search, bubble sort and recursion. Students will develop larger programs with increased emphasis on design, style and documentation. Topics that will be covered include non-quadratic sorts, stacks, queues, binary trees using dynamic pointers as their major data structures. In addition, an introduction to classes and object oriented programming will be included. This course is designed to prepare students to take the Advanced Placement Computer Science "A" test in the spring.

Mathematics Continued

ENGINEERING MATHEMATICS [7966]

Placement: 11-12 Credits: 1 PEIMS: 13036700 Prerequisite: Algebra II

Engineering Mathematics is a course where students solve and model robotic design problems. Students use a variety of mathematical methods and models to represent and analyze problems involving data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and robotics with computer programming.

STATISTICS AND BUSINESS DECISION MAKING [7963] CC

Placement: 11-12 Credits: 1 PEIMS: 13016900 Prerequisite: Algebra II

Students will use a variety of graphical and numerical techniques to analyze patterns and departures from patterns to identify and manage risk that could impact an organization. Students will use probability as a tool for anticipating and forecasting data within business models to make decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

INDEPENDENT STUDY IN MATH 3 - CONTEMPORARY MATHEMATICS DC [3569]

College Credits: MATH 1332 3hrs

Placement: 11-12 Credits: 0.5 PEIMS: 03102502 Prerequisite: Geometry and Algebra II; Acceptance to CTC

Students will study topics to include sets, logic, number theory, geometric concepts, consumer finance and an introduction to probability and statistics. This course is for non-mathematics, non-science, and non-business students seeking mathematics credit. Students will take Elementary Statistical Methods the second semester.

INDEPENDENT STUDY IN MATH 2 - ELEMENTARY STATISTICAL METHODS DC [3585]

College Credits: MATH1342 3hrs

INDEPENDENT STUDY IN MATH 3 - ELEMENTARY STATISTICAL METHODS DC [3570]

College Credits: MATH1342 3hrs

Placement: 11-12 Credits: 0.5 PEIMS: 03102501, 03102502 Prerequisite: Geometry and Algebra II; Acceptance to CTC

Students will study topics to include the collecting, organizing, and displaying of data; measures of central tendency; measures of variation; histograms; probability and probability distributions; binomial distributions; normal distributions; linear regression and their applications.

MULTIVARIABLE CALCULUS [3556]

Placement: 11-12 Credits: 1 PEIMS: N1110018 Prerequisite: AP Calculus BC or AP Calculus AB

Note: AP grade points will be earned.

The primary focus of Multivariable Calculus is the extension of differential and integral calculus to several variables. The course extends the AP Calculus BC experience and culminates in calculus applications to physics with the theorems of Stokes, Green, and Gauss.

FINANCIAL MATH [3575] CC

Grade: 10-12 Credit: 1 PEIMS: 13018000 Prerequisite: Algebra I

This course is about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current projected economic factors. Financial mathematics will integrate career and postsecondary education planning into financial decision making. The mathematical process standards describe ways in which students are expected to engage in the content. The placement of the process standards at the beginning of the knowledge and skills listed for each grade and course is intentional.

STRATEGIC LEARNING FOR HS MATH [3360]

Placement: 9-10 Credits: 1 PEIMS: N1110030 Prerequisite: Failed last math class and/or did not meet minimum expectations on state assessments.

Note: This course earns **State Elective Credit** only.

This course is designed to help students who are deficient in mathematical skills necessary for success in Algebra I and future mathematics courses to improve these skills. Students will use technology as appropriate to help them become proficient in mathematics.

COLLEGE PREPARATORY MATHEMATICS [3571]

Placement: 12 Credits: 1 PEIMS: CP111200 Prerequisite: Identified as not being college ready

This course is designed to meet the needs of students who reach grade 12 without passing the Algebra I EOC. Students enrolled in this course have not met the college readiness standard based on TSI scores or PSAT/SAT scores. The content of this course focuses on mathematics skills including those skills necessary to pass the Algebra I EOC.

INDEPENDENT STUDY MATH 3 LINEAR ALGEBRA DC [3580]

College Credits: MATH2318 3hrs

Placement: 11-12 Credits: 0.5 PEIMS: 03102502 Prerequisite: Ind St Math College Algebra DC [3561] with a grade of "C" or better

This course introduces and provides models for application of concepts of vector algebra. Topics include finite dimensional vector spaces and their geometric significance; representing and solving systems of linear equations using multiple methods, including Gaussian elimination and matrix inversion; matrix determinants; linear transformations; quadratic forms; eigenvalues and eigenvector; and applications in science and engineering.

Mathematics Continued

INDEPENDENT STUDY IN MATH 2 CALCULUS I [3577]

Placement: 11-12

Credits: 0.5

PEIMS: 03102501

College Credits: MATH24134hrs

Prerequisite: Ind St in Math College Algebra [3561] & Ind Study in Math College Precal [3562]

Calculus I is a first course in calculus which emphasizes limits and continuity; the Fundamental Theorem of Calculus; derivatives and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule; the mean value theorem; rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions; and an application to calculation of areas.

INDEPENDENT STUDY IN MATH 2 CALCULUS II DC [3578]

Placement: 11-12

Credits: 0.5

PEIMS: 03102501

College Credits: MATH24144 hrs

Prerequisite: Ind Study in Math 2 Calculus I [3577]

Calculus II is a second course in calculus which emphasizes differentiation and integration techniques of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; and improper integrals.

INDEPENDENT STUDY IN MATH 2 CALCULUS III DC [3579]

Placement: 11-12

PEIMS: 03102502

College Credits: MATH2315 4hrs

Prerequisite: Independent Study in Math 2 Calculus II [3578]

Calculus III is a third course in calculus which emphasizes vectors and vector-valued functions; partial differentiation; Lagrange multipliers; multiple integrals; Jacobians; and application of the line integral which includes Green's Theorem, the Divergence Theorem, and Stoke's Theorem.

MATH 5-8 [*4423, *4424, *4450, *4464] or [*4623, *4624, *4650, *4664]

(ARD Committee Approval)

Placement: 11-12

Credits: 1 each

PEIMS: *84100404, *84100405, *84100406, *84100407

These courses will focus on the acquisition of the knowledge of foundational math skills necessary for normal life activities including home and family living, job skills, banking, and cooking.

DISCRETE MATHEMATICS FOR COMPUTER SCIENCE [3584]

Placement: 11-12

Credits: 1

PEIMS: 03580370

Prerequisite: Algebra II

Discrete Mathematics for Computer Science provides the tools used in most areas of computer science. Exposure to the mathematical concepts and discrete structures presented in this course is essential in order to provide an adequate foundation for further study.

Science

Note: Dual Enrollment Courses are offered on high school campuses through Central Texas College(CTC). Students must enroll at CTC to enroll in college credit. Dual Enrollment Courses carry the highest grade points.

BIOLOGY [4700]

BIOLOGY MOD [5903] (ARD Committee Approval)

Placement: 9-12 Credits: 1 PEIMS: 03010200 Prerequisite: None

Students will develop an understanding of concepts in heredity and biological change over time, patterns of living systems and ecology. The student will demonstrate the ability to apply laboratory techniques in a biology content and design and conduct biological experiments and activities. The student will demonstrate an understanding of the application of science in daily life.

BIOLOGY P-AP [4723]

Placement: 9-12 Credits: 1 PEIMS: 03010200 Prerequisite: None

This course is the in-depth study of the structure, growth, and function of the life systems of selected organisms. This study will encompass historical contributions to biological concepts, energy production, transfer, use in living systems; and the inter relatedness of organisms with each other and with their environments. Students acquire data using their senses and instrumentation to develop research projects. Observations are made of living organisms, prepared specimens, various ecosystems, and inherited traits. Student investigations emphasize accurate observations, collection of data, analysis, and application. The safe manipulation of laboratory apparatus and materials is practiced in the field and the laboratory.

BIOLOGY ALT [4413 or 4613] (ARD Committee Approval)

Placement: 9-12 Credits: 1 PEIMS: 03010207 Prerequisite: None

This course will focus on the acquisition of biological systems necessary for normal life activities including personal health and hygiene. Access to the Biology TEKS requires the teaching of prerequisite skills that are linked to the grade-level curriculum.

INTEGRATED PHYSICS AND CHEMISTRY (IPC) [4707]

INTEGRATED PHYSICS AND CHEMISTRY (IPC) MOD [4725] (ARD Committee Approval)

INTEGRATED PHYSICS AND CHEMISTRY (IPC) ALT [4414/4614] (ARD Committee Approval)

Placement: 9-12 Credits: 1 PEIMS: 03060201 Prerequisite: Recommend completed or enrollment in Algebra I

This course integrates the disciplines of physics and chemistry in the following topics: waves, energy, transformations, properties of matter, changes in matter, and solution chemistry. The course may utilize the Texas Learning Technology Group (TLTG). Students conduct field and laboratory investigations, use scientific methods and make informed decisions using scientific problem solving.

The ALT course will focus on the chemistry concepts for normal life activities.

CHEMISTRY [4703] HS & CC

CHEMISTRY MOD [5909] (ARD Committee Approval)

CHEMISTRY ALT [4415/4615] (ARD Committee Approval)

Placement: 10-12 Credits: 1 PEIMS: 03040000 Prerequisite: 1 unit of science and Algebra I; Recommended completion or concurrent enrollment in 2nd year of math

This course covers topics and laboratory applications on structured problem solving, basic atomic theory, periodic law, bonding types, concepts of amounts and measurement, types of ions and formulas, compositions, reactions, equations and stoichiometry. In addition, gas laws, aqueous systems and solutions, organic chemistry and nuclear chemistry will be studied.

The ALT course will focus on the chemistry concepts necessary for normal life activities.

CHEMISTRY P-AP [4731] HS & CC

Placement: 10-12 Credits: 1 PEIMS: 03040000 Prerequisite: 1 unit of science and Algebra I; Recommended completion or concurrent enrollment in 2nd year of math

This course will encompass a study of dimensional analysis; density; phases of matter; energy calculations; atomic structure; bonding; periodic law; moles; chemical composition and nomenclature; mathematical analysis of compounds; writing and balancing chemical equations; and laboratory techniques. In addition, students will investigate gas laws, solution chemistry kinetics, thermodynamics; acid-base theory, oxidation-reduction reactions; organic and nuclear chemistry. This course is recommended for the student that intends to continue in chemistry, physics and biology.

There will be a strong math focus during the teaching of the chemistry concepts.

AP CHEMISTRY [4715]

Placement: 9-12 Credits: 1 PEIMS: A3040000 Prerequisite: Recommend Chemistry and Algebra II

In this course, the student will define terms, demonstrate advanced laboratory techniques, and plot research data. Major topics will include kinetics, thermodynamics, atomic energy, equilibrium, stoichiometry, electro-chemistry, nuclear chemistry, and organic chemistry. All students enrolled are expected to take the Advanced Placement Exam.

Science Continued

PHYSICS[4704] HS& CC

PHYSICS MOD[5910] (ARD Committee Approval)

Placement: 10-12

Credits: 1

PEIMS: 03050000

Prerequisite: Recommended completion or concurrent Algebra I

This course will encompass the study of the fundamental physical quantities; vector addition; equilibrium; kinematics; energy; thermodynamics; light; sound; electricity and magnetism. This course will be taught with a conceptual focus and a moderate use of math.

PHYSICS P-AP [4732] HS & CC

Placement: 10-12

Credits: 1

PEIMS: 03050000

Prerequisite: Recommended completion or concurrent Algebra I

This course will encompass a study of the fundamental physical constants; trigonometric and graphic addition of vectors; equilibrium; linear and rotational kinematics; simple harmonic motion; thermodynamics; sound; light; electricity and magnetism; and modern physics. This course is recommended for the college bound student and the student who intends to continue in physics or chemistry. There will be a strong math focus during the teaching of the physics concepts.

PRINCIPLES OF TECHNOLOGY [7884] HS & CC

Placement: 10-12

Credits: 1

PEIMS: 13037100

Prerequisite: 1 Science Credit and Algebra I

This course will encompass an approach to understanding mechanical fluid, electrical and thermal systems; the laws of motion and force; and the concepts of resistance, energy transformation in relation to technology.

AP BIOLOGY [4713]

Placement: 11-12

Credits: 1

PEIMS: A3010200

Prerequisite: Recommend Biology and Chemistry

The student will perform college level work with laboratory exercises and a content-oriented course. Basic biochemistry, cytology, and genetics will be included in the course. Theoretical biology, botany, animals and ecology will also be included in the course. All students enrolled are expected to take the Advanced Placement Exam.

AQUATIC SCIENCE [4702]

AQUATIC SCIENCE MOD [5918] (ARD Committee Approval)

AQUATIC SCIENCE ALT [4452] (ARD Committee Approval)

11-12

Credits: 1

PEIMS: 03030000

Prerequisite: Biology; Recommend Chemistry concurrently

Placement:

The student will study the environments, including the geology and chemical components of fresh, brackish and marine water. They will study the methods of aquatic research. Included in the course will be the animals, plants, and man's relationship to these environments.

The ALT course will focus on the scientific concepts necessary for normal life activities.

ASTRONOMY [4706]

Placement: 11-12

Credits: 1

PEIMS: 03060100

Prerequisite: Recommend 1 unit of science

Astronomy is a laboratory course allowing the student to gain knowledge and background in astronomical motion, observing and organizing astronomical information graphically, modeling and analyzing astronomical hypotheses. Emphasis is placed on everyday life and career implications.

EARTH AND SPACE SCIENCE [4720]

EARTH AND SPACE SCIENCE MOD [5919] (ARD Committee Approval)

EARTH AND SPACE SCIENCE ALT [4416/4616] (ARD Committee Approval)

Placement: 11-12

Credits: 1

PEIMS: 03060200

Prerequisite: 3 units of science and 3 units of math, the last unit may be taken concurrently

Earth and Space Science is a capstone course designed to build on students' prior scientific and academic knowledge and skills to develop understanding of Earth's system in space and time. Students conduct classroom, laboratory and field investigations, use scientific methods during investigations and make informed decisions using critical thinking and scientific problem solving skills.

The ALT course will focus on the scientific concepts necessary for normal life activities.

ENVIRONMENTAL SYSTEMS [4701]

Placement: 11-12

Credits: 1

PEIMS: 03020000

Prerequisite: Recommend 1 Life Science and 1 Physical Science

The student will examine the environment and factors which influence it. Both field and laboratory techniques will be used. Methods of collections and identification of organisms will be studied. The relationship among plants, animals and man with their environment will be studied.

ENVIRONMENTAL SYSTEMS P-AP [4711]

Placement: 11-12

Credits: 1

PEIMS: 03020000

Prerequisite: Recommend 1 Life Science and 1 Physical Science

This is an honors level course in environmental systems which emphasizes laboratory and field experience to study in depth certain topics related to ecosystems, impact of lunar activity, and organic farming. Critical issues such as land use, water conservation, renewable and non-renewable resources will be studied. Human impact on the environment will be studied to include pollution and global warming.

Science Continued

AP PHYSICS I ALGEBRA – BASED [4833]

Placement: 10-12

Credits: 1

PEIMS: A3050003

Prerequisite: Recommend Algebra I/Geometry & concurrent enrollment in an Advanced Math

AP Physics I is an Algebra-Based curriculum framework which is structured about the “big ideas” of physics. The course encompasses core scientific principles, theories, and processes of the discipline. In this course students will cultivate their understanding of physics and explore the following topics: Kinematics, Dynamics: Newton’s laws, Circular motion and universal law of gravitation, Simple pendulum and mass-spring systems, Impulse, linear momentum, and conservation of linear momentum (collisions), Work, energy, and conservation of energy, Rotational (torque, rotational kinematics and energy, rotational dynamic, and conservation of angular momentum), Electrostatics (electric charge and electric force), DC circuits (resistors only), Mechanical waves and sound.

AP PHYSICS II ALGEBRA - BASED [4834]

Placement: 11-12

Credits: 1

PEIMS: A3050004

Prerequisite: Recommend AP Physics I & Precalculus concurrently

AP Physics II is an Algebra-Based curriculum framework which is structured about the “big ideas” of physics, which encompass core scientific principles, theories, and processes of the discipline. In this course students will cultivate their understanding of physics and explore the following topics: Thermodynamics (laws of thermodynamics, ideal gases, and kinetic theory), Fluid statics and dynamics, Electrostatics (electric force, electric field and electric potential), DC circuits and RC circuits (steady-state only), Magnetism and electromagnetic induction, Geometric and physical optics, & Quantum physics, atomic, and nuclear physics.

AP ENVIRONMENTAL SCIENCE [4714]

Placement: 11-12

Credits: 1

PEIMS: A3020000

Prerequisite: Recommend Algebra I, 1 Life Science (Lab) and 1 Physical Science (Lab)

This course is an interdisciplinary laboratory science course that uses scientific principles and field studies as well as sociological and political perspectives to understand the interrelationships of the natural world and to identify and analyze environmental problems both natural and man-made. Students will evaluate the relative risk associated with environmental problems and examine solutions for resolving and/or preventing them.

ADVANCED ANIMAL SCIENCE [7952] CC

Placement: 12

Credits: 1

PEIMS: 13000700

Prerequisite: Biology, Chemistry (or IPC), Algebra I, Geometry, and either Animal Management, Equine Science, or Livestock Production. Recommend Veterinary Medical App

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.

ADVANCED PLANT AND SOIL SCIENCE [7969] CC

Placement: 11-12

Credits: 1

PEIMS: 13002100

Prerequisite: Recommend Biology, IPC, Chemistry, or Physics plus 1 credit Ag, Food & Natural Resources

This course provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. Students will conduct field experiments, laboratory investigations, or approved supervised experience programs using safe, environmentally appropriate, and ethical practices.

ANATOMY AND PHYSIOLOGY P-AP [7653] HS & CC

Placement: 11-12

Credits: 1

PEIMS: 13020600

Prerequisites: Biology and a 2nd Science credit; Recommend a Health Science Course

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

ANATOMY AND PHYSIOLOGY DC [7665]

Placement: 11-12

Credits: 1

PEIMS: 13020600

College Credits: BIOL 2401/2402 8hrs

Prerequisite: Biology and a 2nd Science credit; Recommend a Health Science Course and Physics concurrently

This course addresses the structure and function of the human body. This course covers the fundamental and principle concepts of human anatomy, physiology and micro biology. Upon completion, students should be able to identify structures and functions of the human body and describe microorganisms and their significance in health and disease.

Science Continued

PATHOPHYSIOLOGY (H) [6135] CC

Grade: 11-12 Credits: 1 PEIMS: 13020800 Prerequisite: Biology and Chemistry; Recommend Health Sci Course
Students conduct laboratory and field investigations, use the scientific methods during investigations and make informed decisions using critical thinking and scientific problem solving. Students study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of diseases. Students will differentiate between normal and abnormal physiology.

FOOD SCIENCE [7958]

FOOD SCIENCE MOD [5920] (ARD Committee Approval)

Placement: 11-12 Credits: 1 PEIMS: 13023000 Prerequisite: 3 credits of Science, including Chemistry and Biology; Recommend Principles of Hospitality & Tourism

This laboratory course provides foundation training in food science and technology. Food science principles, nutrition and wellness; food technology; world food supply, managing multiple family, community and wage-earner roles and career options are explored. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. The course focuses on chemical and physical changes affecting food product development, food safety and sanitation standards and therapeutic diets. Market research, legal and current issues and food policies are examined through laboratory activities.

FORENSIC SCIENCE [7964]

Placement: 11-12 Credits: 1 PEIMS: 13029500 Prerequisite: Biology & Chemistry; Recommend any Law, Public Safety, Corrections, and Security course concurrently This

course uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensicscience.

BIOTECHNOLOGY I [7968]

Placement: 11-12 Credits: 1 PEIMS: 13036400 Prerequisite: Biology; Recommend Chemistry and Prin of Bioscience

Students enrolled in this course will apply advanced academic knowledge and skills to the emerging fields of biotechnology such as agricultural, medical, regulatory, and forensics. Students will have the opportunity to use sophisticated laboratory equipment, perform statistical analysis, and practice quality-control techniques.

SCIENTIFIC RESEARCH & DESIGN BIOLOGY DC [4837]

Placement: 11-12 Credits: 1 PEIMS: 13037210

College Credits: BIOL1408/1409 8 hrs

Prerequisite: Biology, Chemistry, IPC, or Physics; Recommended Physics or concurrent enrollment

This lecture and lab course provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

SCIENTIFIC RESEARCH & DESIGN 2 BIOLOGY DC [4831]

Placement: 11-12 Credits: 1 PEIMS: 13037210

College Credits: BIOL 1406/1407 8hrs

Prerequisite: Biology, Chemistry, IPC, or Physics; Recommended Physics or concurrent enrollment

The student will perform college level work with laboratory exercises and a content-oriented course. Basic biochemistry, cytology, and genetics will be included in the course. Theoretical biology, botany, animals and ecology will also be included.

SCIENTIFIC RESEARCH & DESIGN CHEMISTRY DC [4832]

Placement: 11-12 Credits: 1 PEIMS: 13037200

College Credits: CHEM 1411/1412 8hrs

Prerequisite: Biology, Chemistry, IPC, or Physics; and Independent Study in Math College Alg 3561 or 3563 with a grade of "C" or better

This course is designed for college-bound students who intend to major in chemistry or other science-related field and is designed to be the equivalent of the general chemistry course usually taken during the first college years. Students will attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. Students are encouraged to develop critical thinking skills and the ability to express their ideas, orally and in writing, with clarity and logic.

SCIENCE/PERSONAL HEALTH AND HYGIENE 5-8 [*4417, *4418, *4449, *4463] or [*4617, *4618, *4649, *4663]

(ARD Committee Approval)

Placement: 10-12 Credits: 1 each PEIMS: 84800901, 84800902, 84800903, 84800904, 84800905, *84800906, *84800907

These courses will focus on the acquisition of knowledge of foundational scientific and health systems necessary for normal life activities including home and family living, personal health and hygiene.

Social Studies

Note: Dual Enrollment Courses (DC) are offered on high school campuses through Central Texas College (CTC). Students must enroll at CTC to enroll in college credit. Dual Enrollment Courses carry the highest grade points.

WORLD GEOGRAPHY [5301]

WORLD GEOGRAPHY MOD [5904] (ARD Committee Approval)

WORLD GEOGRAPHY ALT[4408 or 4608] (ARD Committee Approval)

Placement: 9-12 Credits: 1 PEIMS: 03320100 Prerequisites: None

Note: AP Human Geography [5314] is a duplicate credit.

World Geography is a comprehensive study of humans and their relationship with the environment around them. The course material can be divided into three main ingredients. Beginning with the formation of landforms and ending with the foundations of economics, Unit I constitutes the first ingredient. The basic concepts covered include map skills, physical land forms, cultural traits, governmental systems, and economic forces. Unit II and the remaining units is the second ingredient and they help to provide an understanding of life from around the world. The final ingredient is comprised of global issues, or problems, which face the world as a whole and cannot be escaped. These include: overpopulation, environmental destruction, military and cultural conflict, and resource depletion. Together these three ingredients provide information necessary to gain an understanding of the world as a global community.

World Geography ALT will focus on the acquisition of the knowledge of geography skills necessary for normal life activities.

WORLD GEOGRAPHY P-AP [5322]

Placement: 9-12 Credits: 1 PEIMS: 03320100 Prerequisite: None

Note: AP Human Geography [5314] is a duplicate credit.

Students will use advanced skills to synthesize and evaluate information on humans and their environment in depth. Students will study cause and effect to understand how the movements in and on the earth effect man and his environment. They will learn to use the tools of the Geographer in studying how men learn to travel the world and tell others of the journey. As the students travel around the world, they will learn how and why the cultures developed in the areas of high and low populations. Students can evaluate the problems facing the people of a particular location, things like over-population, environmental destruction, and use of natural resources, cultural conflicts and economic and governmental issues of the areas.

AP HUMAN GEOGRAPHY [5314]

Placement: 9-12 Credits: 1 PEIMS: A3360100 Prerequisite: None

Note: Meets World Geography graduation requirement only if entire credit is completed. Completion of one-half credit may be used to meet elective course requirements only.

Note: World Geography [5301] and World Geography PAP [5322] are duplicate credits.

To introduce students to a systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to analyze human social organization and its environment consequences.

WORLD HISTORY [5304] HS & CC

WORLD HISTORY MOD [5907] (ARD Committee Approval)

WORLD HISTORY ALT[4407 or 4607] (ARD Committee Approval-See Special Education Courses)

Placement: 9-12 Credits: 1 PEIMS: 03340400 Prerequisite: None

Note: AP World History [5315] is a duplicate credit.

This course will cover the development of early civilizations including Egypt, the Middle East, Rome, and Greece through the Middle Ages. The Renaissance, Reformation, Age of Discovery, Age of Reason, and the Napoleonic Era will also be included. Religious, political, social, and economic development will be emphasized. Students will also study history beginning with the Industrial Revolution, the Age of Empire, the effects of WWI and WWII, the United Nations, power conflicts, and the third-world growth. Research skills will be used.

World History ALT will focus on the acquisition of the knowledge of major historical events from around the world.

WORLD HISTORY P-AP [5327] HS & CC

Placement: 9-12 Credits: 1 PEIMS: 03340400 Prerequisite: None

Note: AP World History [5315] is a duplicate credit.

Students will use advanced skills to study the political, economic, social, cultural, and educational systems of civilization and how they interact and promote advancement of civilization and the unique manner in which man uses these systems to interact with the environment. Students will examine the development of classical civilizations that developed during the Middle Ages and their impact, cultural developments during the Renaissance and Scientific Revolutions, technology and its impact during the Age of Discovery, political change during the development of the Monarchies and revolution. Students will examine the role of technology in history, and study the origins of modern ideologies and the concepts of international relations. Future problem solving and model United Nations simulations will be conducted.

Social Studies Continued

AP WORLD HISTORY [5315]

Placement: 9-12 Credits: 1 PEIMS: A3370100 Prerequisite: None

Note: World History [5304] and World History PAP [5327] are duplicate credits.

The purpose of this course is to develop greater understanding of the evolution of global processes and contacts, interaction with different types of human societies. Advanced understanding of factual knowledge and analytical skills will highlight the nature of change in international frameworks and their causes and consequences. Focus is from the beginning of civilization with emphasis on understanding of complex cultural, institutional, and technological precedents significantly affecting human history.

UNITED STATES HISTORY [5303] HS & CC

UNITED STATES HISTORY MOD [5908] (ARD Committee Approval)

Placement: 11-12 Credits: 1 PEIMS: 03340100 Prerequisite: None

Note: AP US History [5311] and IB History: Americas I HL are duplicate credits.

Students will study the rise of "big business," the settling of the "last frontier," the Progressive Movement, U.S. expansion overseas, and U.S. involvement in WWI. Students will study the Roaring Twenties, the Great Depression, U.S. involvement in WWII, the political and social history of post-war America, and the entrance into the Space Age. It also includes the Vietnam War and post-Vietnam social and political developments, as well as the U.S. emergence as a superpower and its involvement in international political affairs.

UNITED STATES HISTORY P-AP [5336] HS & CC

Placement: 11-12 Credits: 1 PEIMS: 03340100 Prerequisite: None

Note: AP US History [5311] and IB History: Americas I HL are duplicate credits.

Students will study the rise of "big business," the settling of the "last frontier," the Progressive Movement, U.S. expansion overseas, and U.S. involvement in WWI. U.S. involvement in WWII, the political and social history of post-war America, and the entrance into the Space Age will be studied. It also includes the Vietnam War and post-Vietnam social and political developments, as well as the U.S. emergence as a super-power and its involvement in international political affairs. The course will be more in-depth and involve more supplemental reading than the regular U.S. History course. Course emphasis will be on developing the students' writing and research skills in preparation for collegiate level work.

AP UNITED STATES HISTORY [5311]

Placement: 11-12 Credits: 1 PEIMS: A3340100 Prerequisite: None

Note: US History [5303], US History PAP [5336], US History DC [5351] and IB History: Americas I HL are duplicate credits.

Students will learn about the United States' development as an independent, unified nation. Geographical influences on the historical growth of the nation will be included. Economic, social, cultural, and political development will be emphasized. The course will cover the colonial beginnings of the United States through the present. The course is designed to prepare students to take the Advanced Placement test in the spring. All students enrolled are expected to take the Advanced Placement test. Students who successfully complete this test may be awarded college credit at the discretion of the college.

UNITED STATES HISTORY DC [5351] HS & CC

Placement: 11-12 Credits: 1 PEIMS: 03340100 Prerequisite: Acceptance to CTC

Note: AP US History [5311] and IB History: Americas I HL are duplicate credits.

Students will study the rise of "big business," the settling of the "last frontier," the Progressive Movement, U.S. expansion overseas, and U.S. involvement in WWI. Students will study the Roaring Twenties, the Great Depression, U.S. involvement in WWII, and the political and social history of post-war America, and the entrance into the Space Age. It also includes the Vietnam War and post-Vietnam social and political developments, as well as the U.S. emergence as a superpower and its involvement in international political affairs.

UNITED STATES HISTORY ALT [4409 or 4609] (ARD Committee Approval)

Placement: 11-12 Credits: 1 PEIMS: 03340107

This course will focus on the acquisition of the knowledge of major United States historical events.

UNITED STATES GOVERNMENT [5302] HS & CC

US GOVERNMENT MOD [5344] (ARD Committee Approval)

US GOVERNMENT ALT [4457/4657] (ARD Committee Approval)

Placement: 12 Credits: 0.5 PEIMS: 03330100 Prerequisite: None

Note: AP US Government and Politics [5309] is a duplicate credit.

A study of the U.S. Constitution with its amendments, the legislative, executive, and judicial branches and their interrelationship, and the rights and responsibilities of citizens in a democracy will be presented. Students will be provided opportunities to compare the functions of local, state, and federal governments.

The ALT course will focus on the government concepts necessary for normal life activities.

Social Studies Continued

AP U.S. GOVERNMENT AND POLITICS [5309]

Placement: 12 Credits: 0.5 PEIMS: A3330100 Prerequisite: None

Note: US Government [5302] and US Government DC [5347] are duplicate credits.

In this course, students should gain a critical perspective on politics and governments in the United States, study the general concepts used to interpret American politics, and analyze specific case studies. They will become familiar with the various institutions, groups, beliefs, and ideas that make up the American political system. Topics answered will include the constitutional underpinnings of American government, political beliefs and behaviors, political parties and interest groups, institutions and policy processes of national government, and civil rights and civil liberties. The course is designed to prepare students to take the Advanced Placement test in the May. All students are expected to take AP test. Students who successfully complete this test may be awarded college credit at the discretion of the college.

US GOVERNMENT DC [5347] HS& CC

Placement: 11-12 Credits: 0.5 PEIMS: 03330100

College Credits: GOVT 2305 3hrs

Prerequisite: Acceptance to CTC

Note: AP US Government and Politics [5309] is a duplicate credit.

This course is an introductory survey course on various United States, Texas, and local government topics. This course includes study of the U.S. and Texas constitutions, federalism, local governments, national elections (state and local), civil liberties, and interest groups.

ECONOMICS OF THE FREE ENTERPRISE SYSTEM [5300] HS & CC

US ECONOMICS MOD [5339] (ARD Committee Approval)

US ECONOMICS ALT [4458/4658] (ARD Committee Approval)

Placement: 12 Credits: 0.5 PEIMS: 03310300 Prerequisite: None

Students will study a composite of the fundamentals of both micro and macroeconomics. The course will deal with scarcity, opportunity costs, and economic decision making; the characteristics of the three basic forms of business; the principles of supply and demand; price determination and the four basic market structures. Students will also be able to describe money and banking as well as the use of monetary policy to influence the American economy. Students will also be familiar with financial investments, markets, and equity investing.

The ALT course will focus on the economic concepts necessary for normal life activities.

AP MICROECONOMICS OF THE FREE ENTERPRISE SYSTEM [5307]

Placement: 12 Credits: 0.5 PEIMS: A3310100 Prerequisite: None

This is an Advanced Placement course in microeconomics designed to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. It places primary emphasis on the nature and function of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. All students enrolled are expected to take the Advanced Placement test in Microeconomics. Students who successfully complete this test may be awarded college credit at the discretion of the college.

AP MACROECONOMICS [5308]

Placement: 12 Credits: 0.5 PEIMS: A3310200 Prerequisite: None

This is an Advanced Placement course in Macroeconomics designed to give the student a thorough understanding of the principals of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price determination, and also develops student's familiarity with economic performance measures, economic growth and international economics such as international finance exchange rates, and balance of payments. All students enrolled are expected to take the Advanced Placement examination in Macroeconomics.

Students who successfully complete this test may be awarded college credit at the discretion of the college

ECONOMICS OF FREE ENTERPRISE DC [5342] HS& CC

Placement: 11-12 Credits: 0.5 PEIMS: 03310300

College Credits: ECON 2301 3hrs

Prerequisite: Acceptance to CTC

Determination of relative prices, consumer demand analysis, the competitive firm; agricultural policy, the monopolistic firm, imperfect competition, business organization and government regulation, determinants of demand, the economic view of taxation and public expenditure, regional economics, international trade and finance.

AP EUROPEAN HISTORY [5312]

Placement: 10-12 Credits: 1 PEIMS: A3340200 Prerequisite: None

This course uses a comprehensive approach to emphasize thematic areas of Modern European history including intellectual and cultural history, i.e., the impact of global expansion on European culture; political and diplomatic history, i.e., the growth and changing forms of nationalism; and social and economic history, i.e., the origins, development, and consequences of industrialization. Students prepare for and are expected to sit for the AP exam.

PSYCHOLOGY [5305]

Placement: 10-12 Credits: 0.5 PEIMS: 03350100 Prerequisite: None

This course provides an overview of introductory principles including: theory of personality; application of theory through case history studies; abnormal psychology- causes and therapy; schizophrenia; multiple personality; methodology (experiments); essay and case study exams. This course is designed and developed as the introduction to AP Psychology.

Social Studies Continued

AP PSYCHOLOGY [5313]

Placement: 10-12 Credits: 0.5 PEIMS: A3350100 Prerequisite: None

This course provides a survey of topics including (but not limited to): biology and behavior; sensation and perception, states of consciousness; abnormal behavior; emotions; motivations; theories of personality; methods of therapy, human sexuality; statistics. The subject matter is on the college level as is instruction; outside work will be assigned; debates and experiments are required. Satisfactory completion of the course requirements and a passing grade on the AP exam may earn college credit.

PSYCHOLOGY DC [5455] HS& CC

College Credits: PSYC 2301 3hrs

Placement: 11-12 Credits: 0.5 PEIMS: 03350100 Prerequisite: Acceptance to CTC

This course provides a survey of (but not limited to): Biology and behavior; sensation and perception, states of consciousness; abnormal behavior; emotions; motivations; theories of personality; methods of therapy, human sexuality; statistics. The subject matter is instruction; outside work will be assigned; debates and experiments are required.

SPECIAL TOPICS IN SOCIAL STUDIES- PSYCHOLOGY [5466]CC

College Credits: PSYC 2314 3hrs

Placement: 11-12 Credits: 0.5 PEIMS:03380002 Prerequisite: Acceptance to CTC

In this course students will study the social, emotional, cognitive and physical factors and influences of a developing human from conception through end of life.

SOCIOLOGY [5306]

Placement: 10-12 Credits: 0.5 PEIMS: 03370100 Prerequisite: None

This course will introduce students to the terminology and methods of sociological research. Students will gain a better understanding of how man organizes and utilizes social institutions to promote group harmony and survival. A greater appreciation of cultural differences and group interaction will result. Issues such as crime, terrorism, aging, and urban growth will be examined.

SOCIOLOGY DC [5456]

College Credits: SOCI 1301 3hrs

Placement: 11-12 Credits: 0.5 PEIMS: 03370100 Prerequisite: Acceptance to CTC

This course will introduce students to the terminology and methods of sociological research. Students will gain a better understanding of how man organizes and utilizes social institutions to promote group harmony and survival. A greater appreciation of cultural differences and group interaction will result. Issues such as crime, terrorism, aging, and urban growth will be examined.

SPECIAL TOPICS IN SOCIAL STUDIES—SOCIAL STUDIES SUPPORT (1st Time Taken) [5458]

SPECIAL TOPICS IN SOCIAL STUDIES—SOCIAL STUDIES SUPPORT (2nd Time Taken) [5459]

Placement: 11-12 Credits: 0.5 each PEIMS: 03380002, 03380022 Prerequisite: Campus placement

In Special Topics in Social Studies, an elective course, students are provided the opportunity to develop a greater understanding of the historic, political, economic, geographic, multicultural, and social forces that have shaped their lives and the world in which they live. Students will use social science knowledge and skills to engage in rational and logical analysis of complex problems using a variety of approaches, while recognizing and appreciating diverse human perspectives.

SPECIAL TOPICS IN SOCIAL STUDIES DC [5463]

College Credits: GOVT 2306 3hrs

Placement: 11-12 Credits: 0.5 PEIMS: 03380002 Prerequisite: Acceptance to CTC

Note: This course does not meet the government requirement for graduation.

This course includes the origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter- governmental relations, political participation, the election process, public policy, and the political culture of Texas.

PERSONAL FINANCIAL LITERACY [5462]

Placement: 10-12 Credits: 0.5 PEIMS: 03380082 Prerequisite: None

Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility.

SOCIAL STUDIES V, VI, VII, VIII ALT [*4411, *4412, *4448, *4465] or [*4610, *4611, *4612, *4648, *4665]

(ARD Committee Approval)

Placement: 12 Credits: 1 each PEIMS: *84400704, *84400705, *84400706, *84400707

These courses will focus on the acquisition of the knowledge of social studies, citizenship, home and family living and community necessary for normal life activities.

Languages Other Than English

FRENCH [4200] GERMAN [4204] SPANISH [4213]

Placement: 9-12 Credits: 1 each PEIMS: 03410100, 03420100, 03440100 Prerequisite: None

Level I courses introduce the beginning foreign language student to the basic reading, speaking, and writing skills and concepts necessary for communication in daily situations. Pronunciation skills will be developed through the accurate reproduction of native sounds. The history and culture of these countries will also be studied.

FRENCH II [4201] GERMAN II [4205] SPANISH II [4214]

Placement: 9-12 Credits: 1 each PEIMS: 03410200, 03420200, 03440200 Prerequisite: Level I of the same language

Level II reviews the basic structures learned in Level I and continues with additional structures, expression, and vocabulary. Listening and speaking skills will continue to be developed. Cultural studies will be extended. Conversation in different social situations will be stressed through creative oral activities. An introduction to literature will teach reading from contextual clues and dictionary usage. Writing will be developed from dictations and guided compositions.

FRENCH III P-AP [4227]

Placement: 9-12 Credits: 1 PEIMS: 03410300 Prerequisite: French II

This course will include sequential steps in listening, speaking, reading and writing French. The history and culture of the people will be explored through the study of literature. There will also be dialogues concerning daily situations as they relate to additional vocabulary and idiomatic expressions of the French people. Grammar will be included.

AP FRENCH LANGUAGE [4217]

Placement: 11-12 Credits: 1 PEIMS: A3410100 Prerequisite: French III

Course covers the equivalent of a third year college course in French writing and conversation. The course seeks to develop language skills (reading, writing, listening and speaking) that can be used in various activities and disciplines. Extensive training in the organization and writing of compositions will be offered.

GERMAN III P-AP [4228]

Placement: 9-12 Credits: 1 PEIMS: 03420300 Prerequisite: German II

This course will be composed of speaking, reading, and writing skills presented through extensive grammar review. The culture will be studied as the students learn of German art, humorists, and poetry.

AP GERMAN LANGUAGE [4218]

Placement: 11-12 Credits: 1 PEIMS: A3420100 Prerequisite: German III

This course covers the equivalent of a third year college course in German writing and conversation. The course seeks to develop language skills that are useful in themselves and can be applied to various activities and disciplines. Extensive practice in the organization and writing of compositions will be offered.

SPANISH III P-AP [4230]

Placement: 9-12 Credits: 1 PEIMS: 03440300 Prerequisite: Spanish II

Students will concentrate on listening, speaking, reading, and writing the language, applying advanced grammar concepts. The history and culture of Spain and Latin America will be introduced through various methods

AP SPANISH LANGUAGE IV [4221]

Placement: 11-12 Credits: 1 PEIMS: A3440100 Prerequisite: Spanish III

This course covers the equivalent of a third year college course in Spanish writing and conversation. Specific areas of interest include the ability to comprehend formal and informal spoken Spanish; the acquisition of vocabulary and a grasp of structure to allow the easy, accurate reading of newspapers and magazine articles, as well as of modern literature in Spanish; the ability to compose expository passages; and the ability to express ideas orally with accuracy and fluency.

AP SPANISH LITERATURE V [4395]

Placement: 11-12 Credits: 1 PEIMS: A3440200 Prerequisite: AP Spanish Language IV

This course covers the equivalent of a third year college course in Spanish writing and literature analysis. The course seeks to develop language skill (reading, writing, literature, analysis and literary discussions) and an understanding of authors and major works of Spanish literature throughout the centuries. Extensive training in the organization and writing of compositions and literary analysis is covered.

Fine Arts

DANCE

DANCE I – IV [2200, 2201, 2202, 2203]

Placement: 9-12 Credits: 1 each PEIMS: 03830100, 03830200, 03830300, 03830400 Prerequisites: Dance level II – IV
require previous level Dance

Note: Counts as **Fine Arts** only.

Note: Dance I-II PE Substitutes [2255] [2256] are duplicate credits.

Students will develop self-confidence and awareness through dance movement, performing memorized movement sequences, and acquiring fundamental skills in modern jazz, ballet, and folk dance, conforming to basic principles of skeletal alignment. Classes are performance-based and will provide opportunities to participate in creative movement and expression through dance. Attendance at rehearsals and performances outside of the school day may be required.

DANCE I-II PE SUBSTITUTE [2255, 2256]

Placement: 9-12 Credits: 1 each PEIMS: 03830100, 03830200 Prerequisite: Previous Level Dance

Note: Dance I-II [2200] [2201] are duplicate credits.

Students will develop self-confidence and awareness through dance movement, performing memorized movement sequences, and acquiring fundamental skills in modern jazz, ballet, and folk dance, conforming to basic principles of skeletal alignment. Classes are performance-based and will provide opportunities to participate in creative movement and expression through dance. Attendance at rehearsals and performances outside of the school day may be required.

DANCE PERFORMANCE/ENSEMBLE I – IV [2257, 2258, 2259, 2260]

Placement: 9-12 Credits: 1 each PEIMS: 03833300, 03833400, 03833500, 03833600 Prerequisite: Dance level II – IV
require previous level Dance

Note: Counts as a **Fine Arts** only.

Dance students develop perceptual thinking and movement abilities in daily life, promoting an understanding of themselves and others. Students develop movement principles and technical skills and explore choreographic and performance qualities. Students develop self-discipline and healthy bodies that move expressively, efficiently, and safely through space and time with a sensitive kinesthetic awareness. Evaluating and analyzing dance allows students to strengthen decision-making skills, develop critical and creative thinking, and develop artistic and creative processes. Students continue to explore technology and its application to dance and movement, enabling them to make informed decisions about dance.

DANCE I – IV DRILL TEAM JV [2251, 2252, 2253, 2254]

Placement: 9-12 Credits: 1 each PEIMS: 03830100, 03830200, 03830300, 03830400 Prerequisite: Dance level II – IV
require previous level Dance

Note: Counts as **Fine Arts** only. **This is a drill team course.**

Students will participate in both curricular and extra-curricular activities as part of this course.

Students will develop self-confidence and awareness through dance movement and acquire fundamental skills in modern jazz, tap, ballet, drill team, and dramatic dance. They will also be provided opportunities to participate in dance techniques by presenting creative expression through dance. Attendance at rehearsals and performances outside of the school day may be required.

DANCE I DRILL TEAM JV PE SUBSTITUTE [2229]

Placement: 9-12 Credits: 1 PEIMS: PES00014 Prerequisite: None

Note: Counts as a **PE Substitute** course only. **This is a drill team course.**

Students will participate in both curricular and extra-curricular activities as part of this course.

Students will develop self-confidence and awareness through dance movement and acquire fundamental skills in modern jazz, tap, ballet, drill team, and dramatic dance. They will also be provided opportunities to participate in dance techniques by presenting creative expression through dance. Attendance at rehearsals and performances outside of the school day may be required.

DANCE I – IV DRILL TEAM [2220, 2221, 2222, 2223]

Placement: 9-12 Credits: 1 each PEIMS: 03830100, 03830200, 03830300, 03830400 Prerequisite: Dance level II – IV
require previous level Dance

Note: Counts as **Fine Arts** only. **This is a drill team course.**

Students will participate in both curricular and extra-curricular activities as part of this course.

Students will develop self-confidence and awareness through dance movement and acquire fundamental skills in modern jazz, tap, ballet, drill team, and dramatic dance. They will also be provided opportunities to participate in dance techniques by presenting creative expression through dance. Attendance at rehearsals and performances outside of the school day may be required.

Fine Arts Continued

DANCE I DRILL TEAM PE SUBSTITUTE [2228]

Placement: 9-12 Credits: 1 PEIMS: PES00014 Prerequisite: None

Note: Counts as a PE Substitute course only. This is a drill team course.

Students will participate in both curricular and extra-curricular activities as part of this course.

Students will develop self-confidence and awareness through dance movement and acquire fundamental skills in modern jazz, tap, ballet, drill team, and dramatic dance. They will also be provided opportunities to participate in dance techniques by presenting creative expression through dance. Attendance at rehearsals and performances outside of the school day may be required.

Music: Band

MUSIC I BAND CADET [1860]

Placement: 9-12 Credits: 1 PEIMS: 03150100 Prerequisite: None

Note: Students will not participate in marching band without director approval; students must furnish own instrument

Students will participate in both curricular and extra-curricular activities as part of this course.

In this beginning level band, students will study and perform band literature of all styles as well as technical studies. Students will be taught to read and interpret, at sight, a variety of band literature. Citizenship and leadership skills will be developed. Student may perform in concerts and contests outside the school day.

MUSIC I-IV BAND (NON-VARSITY) [1853, 1854, 1855, 1856]

Placement: 9-12 Credits: 1 each PEIMS: 03150100, 03150200, 03150300, 03150400 Prerequisite: Music level II – IV courses require previous level Music

Note: Counts as Fine Arts only. Band director assigns sections.

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and band ensemble skills in the TEKS primarily through performance. This is an intermediate class for band students, so membership is determined by audition and prior experience. Sight-reading and technical skills are prerequisites. During the fall semester, this band is part of the marching band that performs publicly at football games, parades, and various marching contest including UIL marching. Activities include concerts, marching band, parades, UIL events, region, area and all-state tryouts. Attendance at rehearsals and performances outside of the school day may be required.

MUSIC I-II BAND (NON-VARSITY) PE SUBSTITUTE [1837, 1838]

Placement: 9-10 Credits: 1 each PEIMS: 03150100, 03150200 Prerequisite: Music level I

Note: After successful completion of the fall semester, students will earn 0.5 credit in PE (PES00012 in courses 2815/2816) due to marching band activities. Band director assigns sections.

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and band ensemble skills in the TEKS primarily through performance. This is an intermediate class for band students, so membership is determined by audition and prior experience. Sight-reading and technical skills are prerequisites. During the fall semester, this band is part of the marching band that performs publicly at football games, parades, and various marching contest including UIL marching. Activities include concerts, marching band, parades, UIL events, region, area and all-state tryouts. Attendance at rehearsals and performances outside of the school day may be required.

MUSIC I-IV BAND (JUNIOR VARSITY) [1863, 1864, 1865, 1866]

Placement: 9-12 Credits: 1 each PEIMS: 03150100, 03150200, 03150300, 03150400 Prerequisite: Music level II – IV courses require previous level Music

Note: Counts as Fine Arts only. Band director assigns sections.

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and band ensemble skills in the TEKS primarily through performance. This is an intermediate class for band students, so membership is determined by audition and prior experience. Sight-reading and technical skills are prerequisites. During the fall semester, this band is part of the marching band that performs publicly at football games, parades, and various marching contest including UIL marching. Activities include concerts, marching band, parades, UIL events, region, area and all-state tryouts. Attendance at rehearsals and performances outside of the school day may be required.

MUSIC I-II BAND (JUNIOR VARSITY) PE SUBSTITUTE [1835, 1836]

Placement: 9-10 Credits: 1 each PEIMS: 03150100, 03150200 Prerequisite: Music level I

Note: After successful completion of the fall semester, students will earn 0.5 credit in PE (PES00012 in courses 2815/2816) due to marching band activities. Band director assigns sections.

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and band ensemble skills in the TEKS primarily through performance. This is an intermediate class for band students, so membership is determined by audition and prior experience. Sight-reading and technical skills are prerequisites. During the fall semester, this band is part of the marching band that performs publicly at football games, parades, and various marching contest including UIL marching. Activities include concerts, marching band, parades, UIL events, region, area and all-state tryouts. Attendance at rehearsals and performances outside of the school day may be required.

Fine Arts Continued

MUSIC I-IV BAND (VARSITY) [1991, 1957, 1958, 1959]

Placement: 9 Credits: 1 PEIMS: 03150100, 03150200, 03150300, 03150400

Prerequisite: Music level II – IV courses
require previous level Music

Note: Counts as **Fine Arts** only. Band director assigns sections.

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and band ensemble skills in the TEKS primarily through performance. This is an advanced class for band students, so membership is determined by audition and prior experience. Sight-reading and technical skills are prerequisites. During the fall semester, this band is part of the marching band that performs publicly at football games, parades, and various marching contest including UIL marching. Activities include concerts, marching band, parades, UIL events, region, area and all-state tryouts. Attendance at rehearsals and performances outside of the school day may be required.

MUSIC I-II BAND (VARSITY) PE SUBSTITUTE [1833, 1834]

Placement: 9-10 Credits: 1 each PEIMS: 03150100, 03150200

Prerequisite: Music level I

Note: After **successful completion** of the fall semester, students will earn 0.5 credit in PE (PES00012 in courses 2815/2816) due to marching band activities. Band director assigns sections.

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and band ensemble skills in the TEKS primarily through performance. This is an advanced class for band students, so membership is determined by audition and prior experience. Sight-reading and technical skills are prerequisites. During the fall semester, this band is part of the marching band that performs publicly at football games, parades, and various marching contest including UIL marching. Activities include concerts, marching band, parades, UIL events, region, area and all-state tryouts. Attendance at rehearsals and performances outside of the school day may be required.

MUSIC I – IV JAZZ BAND [1840, 1841, 1842, 1843]

Placement: 9-12 Credits: 1 each PEIMS: 03151300, 03151400, 03151500, 03151600

Prerequisite: Music level II – IV courses
require previous level Music

Note: Concurrent enrollment in a JV or Varsity band.

Students will participate in both curricular and extra-curricular activities as part of this course.

This course is designed to introduce advanced band students to all forms and literature of jazz. Students will also explore the basic techniques of improvisation. Instrumentation may be limited. Attendance at rehearsals and performances outside of the school day may be required.

MUSIC I – IV INSTRUMENTAL ENSEMBLE STEEL DRUM [1870, 1871, 1872, 1873] (Shoemaker HS only)

Placement: 9-12 Credits: 1 each PEIMS: 03151700, 03151800, 03151900, 03152000

Prerequisite: Music level II – IV courses
require previous level Music

Note: Concurrent enrollment in a JV or Varsity band

Students will participate in both curricular and extra-curricular activities as part of this course.

This course is designed to introduce students to the exotic instrument of the steel drum. Students will learn instrument technique, musicianship, improvisation skills, and play different styles of music. Students will also learn the history and innovation of the steel drum. Students will perform at concerts, UIL contests, and in a variety of competitions. Students will learn good citizenship and leadership abilities as well as self and group disciplines. In the fall, this course will include participation in all Marching Band Activities. Attendance at rehearsals and performances outside of the school day may be required.

MUSIC I – IV BAND COLOR GUARD [2240, 2241, 2242, 2243]

Placement: 9-12 Credits: 1 each PEIMS: 03150100, 03150200, 03150300, 03150400

Prerequisite: Music level II – IV courses
require previous level Music

Note: Counts as **Fine Arts** only.

Students will participate in both curricular and extra-curricular activities as part of this course.

This is a performance-oriented class that combines the elements of dance and equipment work including the use of flags, rifles and props. In the fall semester, color guard will perform as a unit of the Marching Band. In the spring semester, students will perform as a member of the Winter Guard unit. There is a high degree of physical demand. Attendance at rehearsals and performances outside of class may be required.

MUSIC I BAND COLOR GUARD PE SUBSTITUTION [2248]

Placement: 9-12 Credits: 1 each PEIMS: PES00012

Prerequisite: None

Note: Counts as a **PE substitute** course only.

Students will participate in both curricular and extra-curricular activities as part of this course.

This is a performance-oriented class that combines the elements of dance and equipment work including the use of flags, rifles and props. In the fall semester, color guard will perform as a unit of the Marching Band. In the spring semester, students will perform as a member of the Winter Guard unit. There is a high degree of physical demand. Attendance at rehearsals and performances outside of class may be required.

Fine Arts Continued

Music: Choir

MUSIC I – IV CHOIR TREBLE (SUB NON-VARSITY) [2140, 2141, 2142, 2143]

Placement: 9-12 Credits: 1 each PEIMS: 03150900, 03151000, 03151100, 03151200 Prerequisite: Music level II – IV courses
require previous level Music

Note: Choir director assigns sections

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and vocal skills in the TEKS primarily through performance. This is an intermediate choral performing organization for treble voices, so membership is determined by audition and prior experience. Intermediate sight-singing skills and vocal flexibility will be essential. Activities include concerts, U.I.L. events, region, area, and all-state tryouts. Attendance at scheduled performances outside of the school day may be required.

MUSIC I – IV CHOIR TREBLE (NON-VARSITY) [2144, 2145, 2146, 2147]

Placement: 9-12 Credits: 1 each PEIMS: 03150900, 03151000, 03151100, 03151200 Prerequisite: Music level II – IV courses
require previous level Music

Note: Choir director assigns sections

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and vocal skills in the TEKS primarily through performance. This is an intermediate choral performing organization for treble voices, so membership is determined by audition and prior experience. Intermediate sight-singing skills and vocal flexibility will be essential. Activities include concerts, U.I.L. events, region, area, and all-state tryouts. Attendance at scheduled performances outside of the school day may be required.

MUSIC I – IV CHOIR TREBLE (JUNIOR VARSITY) [2148, 2149, 2150, 2151]

Placement: 9-12 Credits: 1 each PEIMS: 03150900, 03151000, 03151100, 03151200 Prerequisite: Music level II – IV courses
require previous level Music

Note: Choir director assigns sections

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and vocal skills in the TEKS primarily through performance. This is an intermediate choral performing organization for treble voices, so membership is determined by audition and prior experience. Intermediate sight-singing skills and vocal flexibility will be essential. Activities include concerts, U.I.L. events, region, area, and all-state tryouts. Attendance at scheduled performances outside of the school day may be required.

MUSIC I – IV CHOIR TREBLE (VARSITY) [2152, 2153, 2154, 2155]

Placement: 9-12 Credits: 1 each PEIMS: 03150900, 03151000, 03151100, 03151200 Prerequisite: Music level II – IV courses
require previous level Music

Note: Choir director assigns sections

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and vocal skills in the TEKS primarily through performance. This is an advanced class for treble voices, so membership is determined by audition and prior experience. Advanced sight-singing skills and vocal flexibility are essential. Students in this choir receive honors credit and thus are strongly encouraged to participate in the TMEA All State audition process and compete at UIL Solo and Ensemble contest on a Class 1 solo. Activities include concerts, U.I.L. events, region, area, and all-state tryouts. Attendance at rehearsals and performances outside of the school day may be required.

MUSIC I – IV CHOIR TENOR/BASS [2160, 2161, 2162, 2163]

Placement: 9-12 Credits: 1 each PEIMS: 03150900, 03151000, 03151100, 03151200 Prerequisite: Music level II – IV courses
require previous level Music

Note: Choir director assigns sections

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and vocal skills in the TEKS primarily through performance. This is an intermediate choral performing organization for men's voices, so membership is determined by audition and prior experience. Intermediate sight-singing skills and vocal flexibility will be essential. Activities include concerts, U.I.L. events, region, area, and all-state tryouts. Attendance at rehearsals and performances outside of the school day may be required.

Fine Arts Continued

MUSIC I – IV CHOIR MIXED (NON-VARSITY) [2170, 2171, 2172, 2173]

Placement: 9-12 Credits: 1 each PEIMS: 03150900, 03151000, 03151100, 03151200 Prerequisite: Music level II – IV courses
require previous level Music

Note: Choir director assigns sections

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and vocal skills in the TEKS primarily through performance. This is an intermediate choral performing organization for mixed voices, so membership is determined by audition and prior experience. Intermediate sight-singing skills and vocal flexibility will be essential. Activities include concerts, U.I.L. events, region, area, and all-state tryouts. Attendance at rehearsals and performances outside of the school day may be required.

MUSIC I-IV CHOIR MIXED CHORALE (VARSITY) [2174, 2175, 2178, 2179]

Placement: 9-12 Credits: 1 each PEIMS: 03150900, 03151000, 03151100, 03151200 Prerequisite: Music level II – IV courses
require previous level Music

Note: Choir director assigns sections

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and vocal skills in the TEKS primarily through performance. This is an advanced class for treble voices, so membership is determined by audition and prior experience. Advanced sight-singing skills and vocal flexibility are prerequisites. Students in this choir receive honors credit and thus are strongly encouraged to participate in the TMEA All State audition process and compete at UIL Solo and Ensemble contest on a Class 1 solo. Activities include concerts, U.I.L. events, region, area, and all-state tryouts. Attendance at rehearsals and performances outside of the school day may be required.

MUSIC I – IV VOCAL ENSEMBLE [2121, 2122, 2123, 2124]

Placement: 9-12 Credits: 1 each PEIMS: 03152100, 03152200, 03152300, 03152400 Prerequisite: Music level II – IV courses
require previous level Music

Note: Concurrent enrollment in a JV or Varsity choir.

Students will participate in both curricular and extra-curricular activities as part of this course.

This course is designed to give students of exceptional singing ability an opportunity to perform at many school and community functions. In addition to receiving advanced training in vocal and ensemble techniques and studying a wide variety of choral literature, this group will represent the school and the district in ensemble competition. Attendance at rehearsals and performances outside of the school day may be required.

Music:Orchestra/Strings

MUSIC I –IV INSTRUMENTAL ENSEMBLE GUITAR (NON-VARSITY) [8014, 8015, 8016, 8017]

Credits: 1 each PEIMS: 03154600, 03154700, 03154800, 03154900 Prerequisite: Music level II – IV courses
Placement: 9-12 require previous level Music

Note: Student must supply own classical style guitar

Students will participate in both curricular and extra-curricular activities as part of this course.

This performing ensemble builds fundamental skills to strengthen the student's playing ability and reading skill on guitar. These students may be combined with other ensembles for special performances. Attendance at rehearsals and performances outside of the school day may be required.

MUSIC I – IV INSTRUMENTAL ENSEMBLE GUITAR (JUNIOR VARSITY) [8018, 8019, 8020, 8021]

Placement: 9-12 Credits: 1 each PEIMS: 03154600, 03154700, 03154800, 03154900 Prerequisite: Music level II – IV courses
require previous level Music

Note: Student must supply own classical style guitar

Students will participate in both curricular and extra-curricular activities as part of this course.

This intermediate level performing ensemble is a second level course for experienced players who can read sheet music and have mastered many fundamental musical skills. This ensemble may be combined with other ensembles for special performances. Attendance at rehearsals and performances outside of the school day may be required.

MUSIC I – IV INSTRUMENTAL ENSEMBLE GUITAR (VARSITY) [8010, 8011, 8012, 8013]

Placement: 9-12 Credits: 1 each PEIMS: 03154600, 03154700, 03154800, 03154900 Prerequisite: Music level II – IV courses
require previous level Music

Note: Student must supply own classical style guitar

Students will participate in both curricular and extra-curricular activities as part of this course.

Meeting high performance standards in multiple styles, this ensemble performs multiple times per year. These students may be combined with other ensembles for special performances. Attendance at rehearsals and performances outside of the school day may be required.

Fine Arts Continued

MUSIC I – IV INSTRUMENTAL ENSEMBLE GENERAL [1883, 1884, 1885, 1886]

Placement: 9-12

Credits: 1 each

PEIMS: 03151700, 03151800, 03151900, 03152000

Prerequisite: Music level II – IV courses
require previous level Music

Students will participate in both curricular and extra-curricular activities as part of this course.

Students will describe and analyze musical sound and demonstrate musical artistry through creative expression and performance. The student is expected to design and apply criteria for making informed judgments regarding the quality and effectiveness of musical performances, evaluate musical performances and practice informed concert behavior.

Music Studies

MUSIC THEORY I [2400]

Placement: 9-12

Credits: 1

PEIMS: 03155400

Prerequisite: None

This course is suggested for students who possess basic musical literacy, who have an outlet for musical performance, and who plan to continue their study of music after graduation from high school. Students will increase their understanding of the mechanics of music through the study of music rudiments, keyboard, ear training, sight singing and notation. Students will learn how to construct scales and chords and will begin study in part-writing.

AP MUSIC THEORY [2402]

Placement: 10-12

Credits: 1

PEIMS: A3150200

Prerequisite: None

AP Music Theory is a rigorous course designed for students who need it for career study as well as those who desire it for enrichment. The class teaches the basics of music theory and composition. Many topics such as scales, key signatures, intervals, triads, inversions, rhythmic, melodic and harmonic dictation, four-part harmony, musical forms, and common compositional techniques will be covered through written, oral and aural means in order to give the student a well-rounded understanding of the building blocks of music. Emphasis will be given to subjects covered in the College Board's AP Music Theory exam.

Music: Orchestra/Strings--- Harker Heights High School Only

MUSIC I – IV ORCHESTRA (NON-VARSITY) [1900, 1901, 1902, 1903] (Harker Heights HS only)

Placement: 9-12

Credits: 1 each

PEIMS: 03150500, 03150600, 03150700, 03150800

Prerequisite: Music level II – IV courses
require previous level Music

Note: Orchestra director assigns sections.

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and orchestral skills in the TEKS, primarily through performance. Emphasis is placed on beginning development of musical fundamentals and skills including bowing and fingering technique, pitch, style, and musicianship. Orchestral literature of varying styles is studied as students continue to develop performance skills. Attendance at rehearsals and performances outside of the school day may be required.

MUSIC I-IV ORCHESTRA (JUNIOR VARSITY) [1910, 1911, 1912, 1913] (Harker Heights HS only)

Placement: 9-12

Credits: 1 each

PEIMS: 03150500, 03150600, 03150700, 03150800

Prerequisite: Music level II – IV courses
require previous level Music

Note: Orchestra director assigns sections.

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and orchestral skills in the TEKS, primarily through performance. This is an intermediate class for string students, so membership is determined by audition and prior experience. Intermediate sight-reading and technical skills are prerequisites. Activities include concerts, UIL events, region, area and all-state tryouts. Attendance at rehearsals and performances outside of the school day may be required.

MUSIC I-IV ORCHESTRA (VARSITY) [1920, 1921, 1922, 1923] (Harker Heights HS only)

Placement: 9-12

Credits: 1 each

PEIMS: 03150500, 03150600, 03150700, 03150800

Prerequisite: Music level II – IV courses
require previous level Music

Note: Orchestra director assigns sections.

Students will participate in both curricular and extra-curricular activities as part of this course.

This course develops musical knowledge and orchestral skills in the TEKS, primarily through performance. This is an advanced class for string students, so membership is determined by audition and prior experience. Advanced sight-reading and technical skills are prerequisites. Activities include concerts, UIL events, region, area and all-state tryouts. Attendance at rehearsals and performances outside of the school day may be required.

Fine Arts Continued

Music Studies--- Harker Heights High School Only

MUSIC PRODUCTION I [2403] (Harker Heights HS only)

Placement: 9-12 Credits: 1 PEIMS: 03156200 Prerequisite: None

Students will participate in both curricular and extra-curricular activities as part of this course.

This course is designed for those students in high school who may not have an extensive background in music (or possibly little elective music study beyond Grade 5). Through this course students will be introduced to various aspects of music and music technologies as it relates to current and evolving careers in music. Using a base knowledge of music theory and terminology, students participate in project-based activities in a digital environment to explore areas of simple composition, arranging, and music production. The student will also become familiar with such technologies as digital audio workstations (DAWS), music notation software and digital video editing.

MUSIC PRODUCTION II [2404] (Harker Heights HS only)

Placement: 10-12 Credits: 1 PEIMS: 03156300 Prerequisite: Recommended Music Production I

Students will participate in both curricular and extra-curricular activities as part of this course.

Through this course students continue to explore various aspects of music and music technologies as it relates to current and evolving careers in music. Using a base knowledge of music theory and terminology, students participate in project-based activities in a digital environment to explore areas of simple composition, arranging, and music production. The student will continue to familiarize with such technologies as digital audio workstations (DAWS), music notation software and digital video editing.

MUSIC THEORY II [2401] (Harker Heights only)

Placement: 10-12 Credit: 1 PEIMS: 03155500 Prerequisite: Recommend Music Theory I

Students will further increase their development of the mechanics of music through the study of music rudiments, MIDI keyboarding, ear training, sight singing and composition. Emphasis will be placed on personal creative skills in arranging music and original compositions.

Theater

THEATRE ARTS I NON-VARSITY [2300] / THEATRE ARTS I VARSITY [2341]

Placement: 9-12 Credits: 1 PEIMS: 03250100 Prerequisite: None

Students will participate in both curricular and extra-curricular activities as part of this course.

Theatre Arts I is the first course students interested in theatre must take. Students will learn basic acting techniques including relaxation techniques, the basics of stage movement, pantomime, and dramatic structure. Students will be expected to perform daily, and be encouraged to become acquainted with the theatre by attending theatrical events in the school and the community. Added emphasis in higher levels will include voice and diction, improvisation, interpreting dramatic literature, and the analysis of play scripts and characters. Some aspects of technical theatre will be studied as they relate to workshop productions presented by the class. Opportunities for classical and contemporary production styles, which may include movement, drama, film and television, improvisational theatre, masked theatre, mime, puppetry, and theatre for children, will be explored.

THEATRE ARTS II NON-VARSITY [2301] / THEATRE ARTS II VARSITY [2342]

Placement: 9-12 Credits: 1 PEIMS: 03250200 Prerequisite: Theatre level I

Students will participate in both curricular and extra-curricular activities as part of this course.

Students will learn intermediate acting techniques including relaxation techniques, the basics of stage movement, pantomime, and dramatic structure. Students will be expected to perform daily, and attend theatrical events in the school and the community. Intermediate levels will include voice and diction, improvisation, interpreting dramatic literature, and the analysis of play scripts and characters and theatrical criticism. Some aspects of technical theatre will be studied as they relate to workshop productions presented by the class. Opportunities for classical and contemporary production styles, which may include movement, drama, film and television, improvisational theatre, masked theatre, mime, puppetry, and theatre for children, will be explored. Attendance at rehearsals and performances outside of the school day may be required.

THEATRE ARTS III – IV NON-VARSITY [2302, 2303] / THEATRE ARTS III – IV VARSITY [2343, 2344]

Placement: 9-12 Credits: 1 each PEIMS: 03250300, 03250400 Prerequisite: Theatre, Level III – IV courses require the previous level Theatre

Students will participate in both curricular and extra-curricular activities as part of this course.

Students will learn advanced acting techniques including relaxation techniques, the basics of stage movement, pantomime, and dramatic structure. Students will be expected to perform daily, and attend theatrical events in the school and the community. Intermediate levels will include voice and diction, improvisation, interpreting dramatic literature, and the analysis of play scripts and characters and theatrical criticism. Some aspects of technical theatre will be studied as they relate to workshop productions presented by the class. Opportunities for classical and contemporary production styles, which may include movement, drama, film and television, improvisational theatre, masked theatre, mime, puppetry, and theatre for children, will be explored. Attendance at rehearsals and performances outside of the school day may be required.

Fine Arts Continued

THEATRE PRODUCTION I & II [2320, 2321]

Placement: 9-12 Credits: 1 each PEIMS: 03250700, 03250800 Prerequisite: Theatre, Level II requires the previous level Theatre

Students will participate in both curricular and extra-curricular activities as part of this course.

These courses provide practical hands-on experience in acting and stage craft. Students will be provided an opportunity to audition, rehearse, and perform acting skills in public. The course will also include opportunities to work on technical crews and participate in strike of set and lights. Research and design will be studied. Attendance at rehearsals and performances outside of the school day may be required.

THEATRE PRODUCTION III & IV [2322, 2323]

Placement: 10-12 Credits: 1 each PEIMS: 03250900, 03251000 Prerequisite: Theatre, Level III – IV courses require the previous level Theatre

Students will participate in both curricular and extra-curricular activities as part of this course.

These courses provide opportunities for experienced theatre arts students to develop advanced theatre skills in acting, directing, stage craft, research, and design. Students will be expected to participate in after-school and/or evening performances. Attendance at rehearsals and performances outside of the school day may be required.

TECHNICAL THEATRE I [2340]

Placement: 9-12 Credits: 1 PEIMS: 03250500 Prerequisite: None

Students will participate in both curricular and extra-curricular activities as part of this course.

This course includes theories of design and stage craft techniques with the construction and operation of the various elements of technical theatre. Design, scenery, properties, lighting, costumes, make-up, sound, and public relations will be studied. Career opportunities will also be explored. Attendance at rehearsals and performances outside of the school day may be required.

TECHNICAL THEATRE II [8201]

Placement: 10-12 Credits: 1 PEIMS: 03250600 Prerequisite: Recommended Technical Theatre I

Students will participate in both curricular and extra-curricular activities as part of this course.

This course builds on the learning and skills from Technical Theatre I including theories of design and stage craft techniques with the construction and operation of the various elements of technical theatre. Design, scenery, properties, lighting, costumes, make-up, sound, and public relations will be studied. Career opportunities will also be explored. Attendance at rehearsals and performances outside of the school day may be required.

TECHNICAL THEATRE III [8401]

Placement: 11-12 Credits: 1 PEIMS: 03251100 Prerequisite: Recommended Technical Theatre II

Students will participate in both curricular and extra-curricular activities as part of this course.

This course builds on the learning and skills from Technical Theatre I and II including theories of design and stage craft techniques with the construction and operation of the various elements of technical theatre. Design, scenery, properties, lighting, costumes, make-up, sound, and public relations will be studied. Career opportunities will also be explored. Attendance at rehearsals and performances outside of the school day may be required.

TECHNICAL THEATRE IV [6138]

Placement: 12 Credits: 1 PEIMS: 03251200 Prerequisite: Recommended Technical Theatre III

Students will participate in both curricular and extra-curricular activities as part of this course.

This course builds on the learning and skills from Technical Theatre I and II including theories of design and stage craft techniques with the construction and operation of the various elements of technical theatre. Design, scenery, properties, lighting, costumes, make-up, sound, and public relations will be studied. Career opportunities will also be explored. Attendance at rehearsals and performances outside of the school day may be required.

Visual Art: Level I

ART I [1610]

Placement: 9-12 Credits: 1 PEIMS: 03500100 Prerequisite: None

This comprehensive course provides the foundation for all subsequent high school art courses. Students will explore the major themes and concepts of art, to include the Elements of Art and Principles of Design. Students will gain experience with a wide range of painting, drawing, and sculpture media. As part of the process of learning about art, students will gain some awareness of art criticism, art history, and careers in various art fields.

Fine Arts Continued

ART I, ART APPRECIATION DC [1338]HS&CC

10-12 Credits: 1 PEIMS: 03500110

College Credits: HUMA 1315

3 hrs Placement:

Prerequisite: None

This course is an exploration of the purposes and processes in the visual and performing arts (such as music, painting, architecture, drama, and dance) and the ways in which they express the values of cultures and human experience.

FLORAL DESIGN [7953] HS &CC

Placement: 10-12 Credits: 1 PEIMS: 13001800 Prerequisite: None

To be prepared for careers in floral design, students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply and transfer their knowledge and skills and technologies in a variety of settings. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students develop respect for the traditions and contributions of diverse cultures. Students respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.

Visual Art: Level II

ART II, DRAWING I [1620]

Placement: 9-12 Credits: 1 PEIMS: 03500500 Prerequisite: Level I Art

Through wet and dry media, the student will further develop their skills with drawing. Students will develop individualized abilities with an emphasis on developing techniques in landscape, still life, and the human figure. In addition to the Elements of Art and the Principles of Design, students will begin to explore composition and expressive mark-making.

ART II, PAINTING I [1655]

Placement: 9-12 Credits: 1 PEIMS: 03500600 Prerequisite: Level I Art

Through wet and dry media, the student will further develop their skills with painting. Students will develop individualized abilities with an emphasis on developing techniques in landscape, still life, and the human figure. In addition to the Elements of Art and the Principles of Design students will begin to explore composition and expressive mark-making.

ART II, SCULPTURE I [1656]

Placement: 9-12 Credits: 1 PEIMS: 03501000 Prerequisite: Level I Art

Through a variety of materials, the student will further develop their skills with sculpture. Students will develop individualized abilities with both sculptural forms as well as ceramics. In addition to the Elements of Art and the Principles of Design students will explore both subtractive and additive sculpture and begin to deal with concerns that are unique to artwork that occupies space.

Visual Art: Level III

ART III, DRAWING II [1630]

Placement: 10-12 Credits: 1 PEIMS: 03501300 Prerequisite: Level II Art

Through wet and dry media, the student will continue to build upon their skills with various drawing media. Students will increasingly be given individual choices regarding medium, subject, and composition with the goal of helping the student create finished, original works of art. Additionally, students will be given the opportunity to develop and pursue themes within their artwork and will go through a curriculum designed to prepare them for the AP program.

ART III, PAINTING II [1657]

Placement: 10-12 Credits: 1 PEIMS: 03501400 Prerequisite: Level II Art

Through wet and dry media, the student will continue to build upon their skills with various painting media. Students will increasingly be given individual choices regarding medium, subject, and composition with the goal of helping the student create finished, original works of art. Additionally, students will be given the opportunity to develop and pursue themes within their artwork and will go through a curriculum designed to prepare them for the AP program.

ART III, SCULPTURE II [1658]

Placement: 10-12 Credits: 1 PEIMS: 03501900 Prerequisite: Level II Art

Through a variety of materials, the student will continue to build upon their skills with various sculpture media. Students will increasingly be given individual choices regarding medium, subject, and composition with the goal of helping the student create finished, original works of art. Additionally, students will be given the opportunity to develop and pursue themes within their artwork and will go through a curriculum designed to prepare them for the AP program.

Visual Art: Level IV**ART IV, DRAWING III [1640]**

Placement: 11-12 Credits: 1 PEIMS: 03502300 Prerequisite: Level III Art

This course is a highly advanced course for the perfecting of the various drawing art processes, procedures, theories, concepts, and art judgment along with the development of personal voice in art-making. The approach is conceptual and experimental in use of the various drawing materials along with the exploration of non-conventional drawing materials. Students are expected to use a knowledge of the drawing art processes and materials to combine them with the goal to create a new and creative expression or voice.

ART IV, PAINTING III [1659]

Placement: 11-12 Credits: 1 PEIMS: 03502400 Prerequisite: Level III Art

This course is a highly advanced course for the perfecting of the various painting art processes, procedures, theories, concepts, and art judgment along with the development of personal voice in art-making. The approach is conceptual and experimental in use of the various painting materials along with the exploration of non-conventional painting materials. Students are expected to use a knowledge of the painting art processes and materials to combine them with the goal to create a new and creative expression or voice.

ART IV, SCULPTURE III [1660]

Placement: 11-12 Credits: 1 PEIMS: 03502800 Prerequisite: Level III Art

This course is a highly advanced course for the perfecting of the various sculpture art processes, procedures, theories, concepts, and art judgment along with the development of personal voice in art-making. The approach is conceptual and experimental in use of the various sculpture materials along with the exploration of non-conventional sculpture materials. Students are expected to use a knowledge of the sculpture art processes and materials to combine them with the goal to create a new and creative expression or voice.

Visual Art: AP

AP STUDIO ART: DRAWING [1650]

Placement: 10-12 Credits: 1 PEIMS: A3500300 Prerequisite: Recommend Level II Art

This is a college-level advanced placement course. The student will complete a portfolio of works that demonstrates breadth, concentration, and quality within a body of work. Students will explore solutions to issues in drawing, mark-making, and composition. Students are encouraged to think creatively and work independently. A variety of wet, dry, and digital media can be used.

AP STUDIO ART: 2-D DESIGN [1651]

Placement: 10-12 Credits: 1 PEIMS: A3500400 Prerequisite: Recommend Level II Art

This is a college-level Advanced Placement course. The student will complete a portfolio of works that demonstrates breadth, concentration, and quality within a body of work. Students will explore solutions to issues in design and composition. Students are encouraged to think creatively and work independently. A variety of wet, dry, and digital media, as well as photography, can be used.

AP STUDIO ART: 3-D DESIGN [1652]

Placement: 10-12 Credits: 1 PEIMS: A3500500 Prerequisite: Recommend Level II Art

This is a college-level Advanced Placement course. The student will complete a portfolio of works that demonstrates breadth, concentration, and quality within a body of work. Students will explore solutions to issues in sculpture and ceramics. Students are encouraged to think creatively and work independently. A variety of additive and subtractive media can be used as well as ceramics.

AP ART HISTORY [1653]

Placement: 10-12 Credits: 1 PEIMS: A3500100 Prerequisite: None

This is a college-level Advanced Placement course. While no prerequisite is required, it is highly recommended that students complete a level 1 Art class prior to taking this course. Students will be familiarized with art history from its beginnings to contemporary times. We will study the major art works, artists, and art movements as well as explore the theories and methods of art. The disciplines of art and history are combined within this academic course to help provide meaning and a frame of reference for understanding art.

Health & Physical Education

ATHLETICS

Placement: 9-12 Credits: 1 each PEIMS: PES00000, PES00001, PES00002, PES00003 Prerequisite: Parental permission slips and completed physical form

Note: The following athletic courses are open to any student who wishes to participate and meets UIL standards of age and number of years in high school:

<u>Course</u>	<u>Code</u>	<u>Course</u>	<u>Code</u>	<u>Course</u>	<u>Code</u>
Baseball		Cross Country		Golf	
Baseball 9 th	[2602]	Cross Country Boys 9 th	[2791]	Golf 9 th	[2609]
Baseball 10 th	[2621]	Cross Country Girls 9 th	[2792]	Golf 10 th	[2641]
Baseball 11 th	[2634]	Cross Country Boys 10 th	[2793]	Golf 11 th	[2774]
Baseball 12 th	[2770]	Cross Country Girls 10 th	[2794]	Golf 12 th	[2775]
		Cross Country Boys 11 th	[2795]		
Basketball		Cross Country Girls 11 th	[2796]	Soccer	
Basketball Boys 9 th	[2603]	Cross Country Boys 12 th	[2797]	Soccer Boys 9 th	[2610]
Basketball Girls 9 th	[2604]	Cross Country Girls 12 th	[2798]	Soccer Girls 9 th	[2611]
Basketball Boys 10 th	[2622]			Soccer Boys 10 th	[2628]
Basketball Girls 10 th	[2623]	Football		Soccer Girls 10 th	[2629]
Basketball Boys 11 th	[2635]	Football 9 th	[2608]	Soccer Boys 11 th	[2642]
Basketball Girls 11 th	[2636]	Football 10 th	[2627]	Soccer Girls 11 th	[2643]
Basketball Boys 12 th	[2771]	Football 11 th	[2640]	Soccer Boys 12 th	[2777]
Basketball Girls 12 th	[2772]	Football 12 th	[2773]	Soccer Girls 12 th	[2776]
Softball		Tennis		Volleyball	
Softball 9 th	[2612]	Tennis 9 th	[2614]	Volleyball 9 th	[2617]
Softball 10 th	[2644]	Tennis 10 th	[2630]	Volleyball 10 th	[2649]
Softball 11 th	[2778]	Tennis 11 th	[2646]	Volleyball 11 th	[2787]
Softball 12 th	[2779]	Tennis 12 th	[2782]	Volleyball 12 th	[2788]
Swimming		Track		Wrestling	
Swimming 9 th	[2613]	Track Boys 9 th	[2615]	Boys 9 th	[2618]
Swimming 10 th	[2645]	Track Girls 9 th	[2616]	Boys 10 th	[2631]
Swimming 11 th	[2780]	Track Boys 10 th	[2647]	Boys 11 th	[2650]
Swimming 12 th	[2781]	Track Girls 10 th	[2648]	Boys 12 th	[2789]
		Track Boys 11 th	[2783]	Girls 9 th	[2619]
		Track Girls 11 th	[2784]	Girls 10 th	[2632]
		Track Boys 12 th	[2785]	Girls 11 th	[2651]
		Track Girls 12 th	[2786]	Girls 12 th	[2790]

PE SUBSTITUTES:

Dance, Color Guard, Drill Team and Music Band (See Fine Arts) and ROTC (See Military Science)

HEALTH [2501]

Note: Not a PE Substitute

Placement: 9-12 Credits: 0.5 PEIMS: 03810100 Prerequisite: None

High school health students will study personal wellness. The course content emphasizes care of the body, mental and emotional health, stress control, suicide prevention, nutrition and diet. Also included will be the study of tobacco, alcohol, drugs and human sexuality. The course will cover infectious and non-infectious diseases, health care, public health, personal safety and first aid. Special attention will also be given to the study of sexually transmitted diseases (STD's) and AIDS, as well as violence as a social problem related to mental health.

SPORTS MEDICINE I [2653]

Note: Not a PE Substitute

Placement: 9-12 Credits: 1 PEIMS: N1150040 Prerequisite: None

Sports Medicine I provides an opportunity for the study and application of the components of sports medicine including but not limited to: organizational and administrative considerations, prevention of athletic injuries, recognition, evaluation, and immediate care of athletic injuries, rehabilitation and management skills, taping and wrapping techniques, first aid/CPR/AED, emergency procedures, nutrition, sports psychology, human anatomy and physiology, therapeutic modalities, and therapeutic exercise.

Health & Physical Education Continued

SPORTS MEDICINE II [2654]

Note: Not a PE substitute

Placement: 10-12 Credits: 1 PEIMS: N1150041 Prerequisite: Sports Medicine I

Sports Medicine II is the field study of sports medicine and athletic training that is offered to students wishing to learn about sports medicine careers. This course will expand a student's knowledge about, but not limited to: sport injuries, sport psychology, sport nutrition, and professional responsibilities. Campuses may use completions of Sports Medicine I and enrollment in Sports Medicine II as a prerequisite to work with athletic teams.

FOUNDATIONS OF PERSONAL FITNESS [2810]

Placement: 9-12 Credits: 1 PEIMS: PES00052 Prerequisite: None

Note: This course is recommended as the first PE course taken by any student in Texas.

Physical Education 1A has wellness as its focus. Students will be in a traditional classroom environment for approximately 25% of the instructional time. 75% of instructional time will be in an activity format. The instruction will emphasize the importance of developing a lifelong fitness plan, components of fitness, nutrition and stress management.

AEROBIC ACTIVITIES [2811]

Placement: 9-12 Credits: 1 PEIMS: PES00054 Prerequisite: Recommend Foundations of Personal Fitness

Students in aerobic activities are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation.

INDIVIDUAL OR TEAM SPORTS [2812]

Placement: 9-12 Credits: 1 PEIMS: PES00055 Prerequisite: Recommend Foundations of Personal Fitness

Instruction and skill development are offered in a variety of individual sports. This instruction is planned to meet the needs of the individual students. The emphasis will be for students to develop and demonstrate physical skills, stamina, and an interest in physical activity and overall wellness. Offerings may include the individual and team sports listed.

OFF CAMPUS PE (OCPE) [2806, 2807, 2808, 2809]

Placement: 9-12 Credits: 1 each PEIMS: PES00008, PES00009, PES00010, PES00011 Prerequisite: None

A school district may award credit as a PE substitute for appropriate physical education for appropriate private or commercially-sponsored physical activity programs conducted on or off campus. The district must apply to the commissioner of education for approval of such programs, which may be substituted for state graduation credit in physical education. Please see www.killeenisd.org, parents, students, off-campus physical education for information about this option.

ATHLETICS TRAINING [2601, 2620, 2633, 2652]

Placement: 9-12 Credits: 1 each PEIMS: PES00000, PES00001, PES00002, PES00003 Prerequisite: Parental permission slips

Note: This course is for any student who wishes to participate as a trainer for any athletic team in high school.

Athletic Training (Sports Medicine) bridges the gap between health class and clinical rotation for students interested in medical related careers, including but not limited to sports medicine, athletic training, orthopedics, and physical therapy. This course provides an opportunity for the study and application of the components of athletic training (sports medicine) including but not limited to: organizational and administrative considerations, prevention of athletic injuries, recognition, evaluation, and immediate care of athletic injuries, rehabilitation and management skills, taping and wrapping techniques, first aid/C PR/AEO, emergency procedures, nutrition, sports psychology, human anatomy and physiology, therapeutic modalities, and therapeutic exercise.

CHEERLEADING [2502, 2503, 2504, 2505]

Placement: 9-12 Credits: 1 each PEIMS: PES00013, PES00001, PES00002, PES00003 Prerequisite: Designated as member of the Cheerleading squad

Cheerleading is a course which stresses performance of cheers, partner stunts, jumps, and acrobat and safety exercises. Attendance and participation at functions requiring cheerleader presentation is mandatory. Cheerleaders should demonstrate citizenship and school spirit.

Physical Education IV, V, VI [5921, 5922, 5923] (ARD Committee Approval)

Placement: 9-12 Credits: 1 each PEIMS: 84200PE4, 84200PE5, 84200PE6 Prerequisite: None

This instruction is planned to meet the needs of the individual students. The emphasis will be for students to develop and demonstrate physical skills and an interest in physical activity and overall wellness.

Career and Technical Education (CTE)

Articulation: Course-to-course articulation agreements grant college credit to students who have acquired occupational competencies from high school courses that are equivalent to those acquired in entry-level college technical courses. See your counselor or CTE teacher for details.

Note: **CC** denotes courses taught at the KISD Career Center and **AC** means the course is an advanced course.

Agriculture, Food, and Natural Resources

Note: Students are not required to have an animal project for any Agriculture Science course listed. (An animal project is a learning experience that is an option for all students in Agriculture Science, but is strictly an extracurricular activity offered through FFA.)

PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES [7518]

Placement: 9-12 Credits: 1 PEIMS: 13000200 Prerequisite: None

To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students will have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings.

WILDLIFE, FISHERIES AND ECOLOGY MANAGEMENT [6165]

Placement: 9-12 Credits: 1 PEIMS: 13001500 Prerequisite: None

To be prepared for careers in natural resource systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices.

LIVESTOCK PRODUCTION [6154]

Placement: 10-12 Credits: 1 PEIMS: 13000300 Prerequisite: None

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students will have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

SMALL ANIMAL MANAGEMENT [7562]

Placement: 9-12 Credits: 0.5 PEIMS: 13000400 Prerequisite: None

To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats.

EQUINE (HORSE) SCIENCE [7564]

Placement: 10-12 Credits: 0.5 PEIMS: 13000500 Prerequisite: None

To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students will have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Suggested animals which may be included in the course of study include, but are not limited to, horses, donkeys, and mules.

VETERINARY MEDICAL APPLICATIONS [6047] CC, AC

Placement: 11 Credits: 1 PEIMS: 13000600 Prerequisite: Equine Science, Small Animal Management, or Livestock Production.

This course requires students to attain academic skills & knowledge related to animal systems and the workplace. Career opportunities, entry requirements & industry expectations will be explored. Topics covered include veterinary practices related to both large and small animal species.

PRACTICUM IN AGRICULTURE- VETERINARY MEDICAL APPLICATIONS [6071] CC, AC

Placement: 12 Credits: 2 PEIMS: 13002500 Prerequisite: Recommend 1 credit Ag, Food & Nat Resources, Vet Med Applications

This course is an unpaid capstone experience for students participating in a coherent sequence of courses in the Animal Science Program of Study. The course provides supervised practical experiences in a variety of locations appropriate to the nature & level of experiences i.e. employment, independent study, internships, assistantships, mentorships, or laboratories.

Career and Technical Education(CTE)Continued

ADVANCED ANIMAL SCIENCE [7952] CC, AC

Placement: 12

Credits: 1

PEIMS: 13000700

Prerequisite: Biology, Chemistry (or IPC), Algebra I, Geometry, and either Animal Management, Equine Science, or Livestock Production. Recommend Veterinary Medical App

Note: Qualifies as a **4th science credit**.

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students will have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.

ENERGY AND NATURAL RESOURCES TECHNOLOGY [6117] CC

Placement: 10-12

Credits: 1

PEIMS: 13001100

Prerequisite: Recommend 1 credit Ag, Food & Natural Resources

This course is designed to explore the interdependency of the public and natural resource systems related to energy production. In addition, renewable, sustainable, and environmentally friendly practices will be explored.

ADVANCED ENERGY AND NATURAL RESOURCE TECHNOLOGY [6048] CC, AC

Grade: 11-12

Credits: 1

PEIMS: 13001200

Prerequisite: Recommend 1 credit Ag, Food & Natural Resources and Energy and Natural Resource Technology

This course examines the interrelatedness of environmental issues & production agriculture. Students evaluate sustainable resources and green technologies which provide environmental benefits. Instruction is designed to allow for the application of science and technology to measure environmental impacts resulting from production agriculture through field and laboratory experiences.

ADVANCED PLANT AND SOIL SCIENCE [7969] CC, AC

Placement: 11-12

Credits: 1

PEIMS: 13002100

Prerequisite: Recommend Biology, IPC, Chemistry, or Physics plus 1 credit Ag, Food & Natural Resources

Note: Qualifies as a **4th science credit**.

This course provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. Students will conduct field experiments, laboratory investigations, or approved supervised experience programs using safe, environmentally appropriate, and ethical practices.

FLORAL DESIGN [7953] HS AND CC

Placement: 10-12

Credits: 1

PEIMS: 13001800

Prerequisite: None

Note: Qualifies as a **Fine Arts credit**

To be prepared for careers in floral design, students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students will have opportunities to learn, reinforce, apply and transfer their knowledge and skills and technologies in a variety of settings. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students develop respect for the traditions and contributions of diverse cultures. Students respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.

LANDSCAPE DESIGN MANAGEMENT [6167] CC

Placement: 10-12

Credits: 0.5

PEIMS: 13001900

Prerequisite: None

Students need to attain knowledge & skills related to horticultural systems and the workplace and develop skills regarding career opportunities, entry requirement & industry expectations. This course is designed to develop an understanding of landscape design and management techniques and practices.

TURF GRASS MANAGEMENT [6168] CC

Placement: 10-12

Credits: 0.5

PEIMS: 13001950

Prerequisite: None

Students need to attain knowledge & skills related to horticultural systems and the workplace and develop skills regarding career opportunities, entry requirement & industry expectations. This course is designed to develop an understanding turf grass management techniques and practices.

HORTICULTURE SCIENCE [6082] CC, AC

Placement: 10-12

Credits: 1

PEIMS: 13002000

Prerequisite: None

This course is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production.

PRACTICUM IN AGRICULTURE- FLORAL DESIGN [6073] CC, AC

Placement: 12 Credits: 2 PEIMS: 13002500 Prerequisite: Recommend 1 credit Ag, Food & Nat Resources

This course is an unpaid capstone experience for students participating in a coherent sequence of courses in the Horticulture Program of Study. The course provides supervised practical experiences in a variety of locations appropriate to the nature & level of experiences i.e. employment, independent study, internships, mentorships, or laboratories.

GREENHOUSE OPERATIONS [6156] CC

Placement: 10-12 Credits: 1 PEIMS: 13002050 Prerequisite: None

This course is designed to develop an understanding of greenhouse production techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

AGRICULTURAL MECHANICS AND METAL TECHNOLOGIES [7951] CC

Placement: 10-12 Credits: 1 PEIMS: 13002200 Prerequisite: Recommend Prin of Ag, Food, and Natural Resources

To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students will have opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

MATHEMATICAL APPLICATIONS IN AGRICULTURE, FOOD, AND NATURAL RESOURCES [7960] AC

Placement: 11-12 Credits: 1 PEIMS: 13001000 Prerequisite: Algebra I; Recommend 1 credit Ag, Food & Natural Resources

To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context: of agriculture, food, and natural resources. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts.

PROFESSIONAL STANDARDS IN AGRIBUSINESS [7971]

Placement: 9-12 Credits: 0.5 PEIMS: 13000800 Prerequisite: None

A comprehensive course designed to develop agricultural leadership, citizenship and cooperation. Instruction includes such topics as personal development, communication, employer-employee relations, and problem solving as they relate to agribusiness.

Architecture and Construction**PRINCIPLES OF ARCHITECTURE [7520]**

Placement: 9-12 Credits: 1 PEIMS: 13004210 Prerequisite: None

This course provides an overview to the various fields of architecture, interior design, construction science, and construction technology. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, educational, and career information to set and achieve realistic career and educational goals. Job-specific, skilled training is provided through the use of training modules to identify career goals in trade and industry areas.

PRINCIPLES OF CONSTRUCTION [6159]

Placement: 9-12 Credits: 1 PEIMS: 13004220 Prerequisite: None

This course is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

CONSTRUCTION TECHNOLOGY I [6160] CC

Placement: 10-12 Credits: 2 PEIMS: 13005100 Prerequisite: Recommend Prin of Construction or Prin of Architecture

In this course, students will gain knowledge and skills needed to enter the workforce as carpenters or building maintenance supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

Career and Technical Education (CTE) Continued

CONSTRUCTION TECHNOLOGY II [6161] CC, AC

Placement: 11-12 Credits: 2 PEIMS: 13005200 Prerequisite: Construction Technology I

In this course, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians, or supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.

PRACTICUM IN CONSTRUCTION TECHNOLOGY [6162] CC, AC

Placement: 12 Credits: 2 PEIMS: 13005250 Prerequisite: Construction Technology II

In this course, students will be challenged with the application of gained knowledge and skills from Construction Technology I and II. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.

ELECTRICAL TECHNOLOGY I [7667] CC

Placement: 10-11 Credits: 1 PEIMS: 13005600 Prerequisite : Recommend Prin of Architecture or Prin of Construction

In Electrical Technology I, students will gain knowledge and skills needed to enter the workforce as an electrician or building maintenance supervisor, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications.

ELECTRICAL TECHNOLOGY II [7668] CC, AC

Placement: 12 Credits: 2 PEIMS: 13005700 Prerequisite: Electrical Technology I

In Electrical Technology II, students will gain advanced knowledge and skills needed to enter the workforce as an electrician, a building maintenance technician, or a supervisor; prepare for a postsecondary degree in a specified field of construction or construction management; or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation.

INTERIOR DESIGN I [6523] CC

Placement: 10-12 Credits: 1 PEIMS: 13004300 Prerequisite: Algebra I and English I; Recommend Prin of Architecture and Prin of Construction or Arch Design I

Interior Design is a technical course that addresses psychological, physiological, and sociological needs of individuals by enhancing the environments in which they live and work. Individuals use knowledge and skills related to interior and exterior environments.

INTERIOR DESIGN II [6158] CC, AC

Placement: 11-12 Credits: 2 PEIMS: 13004400 Prerequisite: English II, Geometry, and Interior Design I

Advanced Interior Design is a technical laboratory course that includes the knowledge of the employability characteristics, principles, processes, technologies, communication, tools, equipment, and materials related to interior spatial design.

ARCHITECTURAL DESIGN I [6139] CC

Placement: 10-12 Credits: 1 PEIMS: 13004600 Prerequisites: Algebra I and English I; Recommend Geometry, Prin of Architecture, and Prin of Construction

Architectural design includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes. Students gain knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design and landscape architecture.

ARCHITECTURAL DESIGN II [6140] CC, AC

Placement: 11-12 Credits: 2 PEIMS: 13004700 Prerequisites: Architectural Design I or Interior Design II and Geometry; Recommend Prin of Architecture and Prin of Construction

Students gain an advanced knowledge of the skills specific to Architectural Design which includes the advanced knowledge of the design, design history, techniques and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes.

PRACTICUM IN ARCHITECTURAL DESIGN [6141] CC, AC

Placement: 12 Credits: 2 PEIMS: 13004800 Prerequisites: Architectural Design II

Practicum in Architectural Design is an occupationally specific course designed to provide technical instruction in architectural design. Safety and career opportunities are included in addition to work ethics and architectural design study.

Career and Technical Education (CTE)Continued

Arts, A/V Technology and Communications

PRINCIPLES OF ARTS, AUDIO VIDEO TECHNOLOGY AND COMMUNICATIONS [6014]

Placement: 9-12 Credits: 1 PEIMS: 13008200 Prerequisites: None

This course is a two semester course with two distinct courses of instruction. 6014A will be taught first semester and will allow the student to use their creative aptitude, strong background in computer and technology applications to master skills in graphics design/ photography (Photoshop) and sound design (Garage Band) and Web Technology. 6014B will be taught second semester and will allow the student to master skills in Animation (with Adobe Rash), Movie and A/V production (with I-movie) and Video Game Design introduction. Second semester (6014 B) may be taken without the prerequisite of first semester (6014A).

COMMERCIAL PHOTOGRAPHY I [6013] CC

Placement: 10-12 Credits: 1 PEIMS: 13009100 Prerequisite: None

This course emphasizes essential skills needed in the refinement of commercial photography through image exposure (aperture, shutter, light meter, etc.), post-image capture processing, image manipulation, and presenting professional quality photographs utilizing Adobe Photoshop and online photography sites. Careers in photography spanning sports/action, portrait, food, still-life, panoramic, and storytelling are covered within this course. A student owned camera for this course is highly recommended but not required, however students will be expected to take photos outside of school throughout the year.

COMMERCIAL PHOTOGRAPHY II/COMMERCIAL PHOTOGRAPHY II LAB [6087] CC, AC

Placement: 11-12 Credits: 2 (1 each) PEIMS: 13009210 Prerequisite: Recommend Commercial Photography I

This course emphasizes essential skills needed to setup, maintain, and facilitate the students own personal photography business. Throughout the course career opportunities and industry standards are taught. Students will attend school, community and local events for photo capturing. The type of events range from portrait sessions, sporting events, concerts, local photographer gatherings, Central Texas Fair & Rodeo, etc. Portfolio building and photo contests will be performed by students enrolled in advanced commercial photography. A student owned camera for this course is highly recommended but not required. Student generated images are created exclusively outside of class time for this course. Students are required to provide their own transportation to events and locations.

PRACTICUM IN COMMERCIAL PHOTOGRAPHY [6174] CC, AC

Placement: 12 Credits: 2 PEIMS: 13009250 Prerequisite: Commercial Photo II/Lab and teacher recommendation

In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs. Students will work independently on photography/graphic/online projects throughout the community and school district. Students will focus on building and maintaining their personal photography business and portfolio.

FASHION DESIGN [7513]

Placement: 10-12 Credits: 1 PEIMS: 13009300 Prerequisite: Recommend Principles of Arts, A/V Tech, and Communications

Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology and Communications career cluster, students will be expected to develop an understanding of fashion and the textile and apparel industries. Students will be expected to furnish some supplies during portions of this course.

GRAPHIC DESIGN AND ILLUSTRATION I [6010] HS & CC

Placement: 10-12 Credits: 1 PEIMS: 13008800 Prerequisite: Recommend Principles of Arts, A/V Tech, and Communications

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

GRAPHIC DESIGN & ILLUSTRATION II/GRAPHIC DESIGN & ILLUSTRATION II LAB [6052] CC, AC

Placement: 11-12 Credits: 2 (1 each) PEIMS: 13008910 Prerequisite: Graphic Design and Illustration I

Careers in graphic design & illustration span all aspects of the advertising & visual communications industries. Students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge & skills needed for success in this career cluster.

PRACTICUM IN GRAPHIC DESIGN & ILLUSTRATION [6068] CC, AC

Placement: 12 Credits: 2 PEIMS: 13009000 Prerequisite: Graphic Design & Illustration II plus Lab

Careers in graphic design and illustration span all aspects of the advertising & visual communications industry. Students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or internship opportunities.

Career and Technical Education (CTE)Continued

AUDIO/VIDEO PRODUCTION I/AUDIO VIDEO PRODUCTION I LAB [7956] CC

Placement: 10-12 Credits: 2 (1 each)PEIMS: 13008510 Prerequisite: Recommend Principles of Arts, A/V Tech and Communications

This course introduces fundamental audio/video production concepts and techniques in a hands-on approach. Students will use high definition cameras and will be introduced to lighting, sound, and editing with an emphasis of the course on developing technical skills.

AUDIO VIDEO PRODUCTION II/AUDIO VIDEO PRODUCTION II LAB [7955] CC, AC

Placement: 11-12 Credits: 2 (1 each)PEIMS: 13008610 Prerequisite: Audio Video Production I

In the Arts, Audio/ Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production activities.

PRACTICUM IN AUDIO VIDEO PRODUCTION [6067] CC, AC

Placement: 12 Credits: 2 PEIMS: 13008700 Prerequisite: A/V Production II/Lab

Students will develop advanced technical knowledge and skills needed for success in this career cluster. Students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production and post- production audio & video activities in a studio environment. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

ANIMATION I/ANIMATION I LAB [6076] CC

Placement: 10-12 Credits: 2 (1 each)PEIMS: 13008310 Prerequisite: Recommend Art I or Principles of Arts, A/V Tech and Communications

Careers in animation span all aspects of motion graphics. In addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology and Communications career cluster, students will be expected to develop an understanding of the history and techniques of the animation industry.

ANIMATION II/ANIMATION II LAB [3106] CC, AC

Placement: 11-12 Credits: 2 (1 each)PEIMS: 13008410 Prerequisite: Animation I

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology and Communications career cluster, students will be expected to create two-and three-dimensional animations.

PRACTICUM IN ANIMATION [6157] CC, AC

Placement: 12 Credits: 2 PEIMS: 13008450 Prerequisite: Animation II/Lab

Building upon the concepts taught in Animation II and its corequisite Animation II Lab, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production animation products in a professional environment. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

VIDEO GAME DESIGN [7962] CC

Placement: 10-12 Credits: 1 PEIMS: 13009970 Prerequisite: Recommend Prin of Arts, A/V Tech and Communication

The student will be provided the opportunity to design, program, and create a functional video game. The course will introduce basic programming language and skills that are essential to developing a video game. Topics covered are math, physics, design, and computer programming.

VIDEO GAME DESIGN II [6080] CC

Placement: 11-12 Credits: 1 PEIMS: N1300994 Prerequisite: Video Game Design

The student will work as part of a game design team to develop a full featured video game from concept to completed playable game. Topics include developing games for multiple platforms: tablets, phones, internet, consoles, PC, and MAC.

PROJECT BASED RESEARCH - VIDEO GAME DESIGN [6127] CC, AC

Placement: 12 Credits: 1 PEIMS: 12701520 Prerequisite: Video Game Design II

Video Game Design III expands on the foundation created in Video Design I & II through programming languages such as: C# programming, XNA Game Studio, Java, & Android App. In VGD3, students will develop mobile applications.

PROJECT-BASED RESEARCH-INTRODUCTION TO DIGITAL AUDIO TECHNOLOGY [6175] CC

Placement: 10-12 Credits: 1 PEIMS: 12701500 Prerequisite: None

Students enrolled in this course will get an overview of 21st century media; TV, radio, internet and multimedia content. Students will learn the history of radio broadcasting, along with its influence & role in society. Students will begin to learn the basics of radio in the form of vocabulary, formats and job assignments within the broadcasting industry.

Career and Technical Education (CTE) Continued

DIGITAL AUDIO TECHNOLOGY I [6163] CC

Placement: 10-12 Credits: 1 PEIMS: 13009950 Prerequisite: Recommend Prin of A/V Tech & Communications or Digital Media or Audio Video Production I/Lab

This course was designed to provide students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, music production and live sound, and additional opportunities and skill sets. Students will be expected to develop an understanding of the audio industry with a technical emphasis on production and critical-listening skills.

DIGITAL AUDIO TECHNOLOGY II [6164] CC, AC

Placement: 11-12 Credits: 1 PEIMS: 13009960 Prerequisite: Digital Audio Technology I

This course was designed to provide additional opportunities and skill sets for students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, and music production and live sound. Students will be expected to develop an understanding of the audio industry with a technical emphasis on production and critical-listening skills.

PROFESSIONAL COMMUNICATIONS [7526]

Placement: 9-12 Credits: 0.5 PEIMS: 13009900 Prerequisite: None

Note: Qualifies as a speech credit

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

Business, Management and Administration

PRINCIPLES OF BUSINESS, MARKETING AND FINANCE [7519]

Placement: 9-12 Credits: 1 PEIMS: 13011200 Prerequisite: None

This course will allow students to reinforce, apply and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing and finance. Students will analyze the sales process and financial management principles while gaining knowledge and skills in economies and private enterprise systems, the impact of a global business, marketing goods and services, advertising and product pricing.

BUSINESS LAW [6183]

Placement: 10-12 Credits: 1 PEIMS: 13011700 Prerequisite: None

Students analyze the social responsibility of business and industry regarding the significant issues relating to the legal environment, business ethics, contracts, personal property, sales, warranties, and business organizations, concept of agency and employment, and real property. Students apply technical skills to address business applications of contemporary legal issues. Students incorporate a broad base of knowledge that includes the legal dimensions of business to make appropriate business decisions, using courtroom procedures and situation simulations to illustrate legal aspects of business.

GLOBAL BUSINESS [6184] CC

Placement: 10-12 Credits: 0.5 PEIMS: 13011800 Prerequisite: None

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce and postsecondary education. Students apply technical skills to address global business applications of emerging technologies.

BUSINESS MANAGEMENT [6128] CC, AC

Placement: 12 Credits: 1 PEIMS: 13012100 Prerequisite: None

Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of management and leadership by incorporating social responsibility of business and industry. Student develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions.

VIRTUAL BUSINESS [6187] CC

Placement: 10-12 Credits: 0.5 PEIMS: 13012000 Prerequisite: Recommended Touch System Data Entry

This course is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.

Career and Technical Education (CTE) Continued

HUMAN RESOURCE MANAGEMENT [6185] CC

Placement: 10-12 Credits: 0.5 PEIMS: 13011900 Prerequisite: None

This course is designed to familiarize students with the concepts related to human resource management, including legal requirements, recruitment and employee selection methods, and employee development and evaluation. Students will also become familiar with compensation and benefits programs as well as workplace safety, employee-management relations, and global impacts on human resources.

TOUCH SYSTEM DATA ENTRY – MEDICAL ADMINISTRATIVE SUPPORT [7573] CC

Placement: 10-12 Credits: 0.5 PEIMS: 13011300 Prerequisite: Recommend Principles of Health Science

This course emphasizes essential skills required for the typical medical office. The students will gain practical knowledge of appointment booking, office protocol, time management, telephone techniques, office equipment, mail services, references, medical filing and record management, HIPAA concepts, the electronic health record and simulation software, correspondence, coding, billing, collecting, third party reimbursement, and travel and meeting arrangements.

PROJECT BASED RESEARCH II - MEDICAL CODING [6075] CC, AC

Placement: 11-12 Credits: 1 PEIMS: 12701510 Prerequisite: Recommend Medical Administrative Support Students

will learn the application of basic coding rules, principles, guidelines, and conventions to comprehend and apply CPT, ICD-9, ICD-10, and HCPCS coding guidelines to identify diagnoses, procedures, and patient medical records. The coder is the liaison between the health clinician and billing offices. Medical Terminology and Anatomy/Physiology is beneficial in understanding the doctor's notes to code.

PRACTICUM IN BUSINESS-MEDICAL ADMINISTRATION [6111] CC, AC

Placement: 12 Credits: 2 PEIMS: 13012200 Prerequisite: Recommended Touch System Data Entry and Business Management

The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Certain immunizations are required. Students must wear scrubs. Students must provide their own transportation to practicum sites.

Education and Training

PRINCIPLES OF EDUCATION AND TRAINING [7982]

Placement: 9-12 Credits: 1 PEIMS: 13014200 Prerequisite: None

This course is designed to introduce learners to the careers available within the Education and Training career cluster. Students use self-knowledge and educational and career information to analyze and gain an understanding of the basic knowledge and skills essential to careers within the Education and Training career cluster. Students will develop a graduation plan that leads to a specific career choice in the student's area of interest.

HUMAN GROWTH AND DEVELOPMENT [6015] HS & CC

Placement: 10-12 Credits: 1 PEIMS: 13014300 Prerequisite: Recommend Principles of Education and Training

Human Growth and Development is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones.

INSTRUCTIONAL PRACTICES IN EDUCATION AND TRAINING [7959] CC, AC

Placement: 10-12 Credits: 2 PEIMS: 13014400 Prerequisite: Recommend Principles of Education & Training and Human Growth & Development

This course provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel. This course includes some field-site visits to prepare students for Practicum in Education and Training I & II.

PRACTICUM IN EDUCATION AND TRAINING [7663] CC, AC

Placement: 11-12 Credits: 2 PEIMS: 13014500 Prerequisite: Instructional Practices / Recommend Principles of Ed & Training and Human Growth & Development.

Note: Students will be required to join the student organization TAFE & students will be required to purchase a uniform.

This course is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with elementary, middle school, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.

Career and Technical Education (CTE) Continued

PRACTICUM IN EDUCATION AND TRAINING II [6095] CC, AC

Placement: 12

Credits: 2

PEIMS: 13014510

Prerequisite: Instructional Practices and Practicum in Education and Training I

This course is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with elementary, middle school, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.

Finance

PRINCIPLES OF BUSINESS, MARKETING AND FINANCE [7519]

Placement: 9-12

Credits: 1

PEIMS: 13011200

Prerequisite: None

This course will allow students to reinforce, apply and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing and finance. Students will analyze the sales process and financial management principles while gaining knowledge and skills in economies and private enterprise systems, the impact of a global business, marketing goods and services, advertising and product pricing.

ACCOUNTING I [7575] CC

Placement: 11-12

Credits: 1

PEIMS: 13016600

Prerequisite: Recommend Principles of Business, Marketing and Finance

This course introduces general accounting concepts, principles, and procedures; emphasizes the need for financial records; provides the fundamental equation and its application to accounting procedures, including the basic steps of the accounting cycle; special journals and ledgers; work sheets; adjusting and closing entries; special problems in the purchase and sale of merchandise; promissory notes and interest; depreciation; accruals and prepaid items; payroll records; and personal income taxes.

ACCOUNTING II [7578] CC, AC

Placement: 12

Credits: 1

PEIMS: 13016700

Prerequisite: Accounting I

This course provides for review and further development of fundamental accounting principles with extensive use of technology and incorporates the complete accounting cycle in relation to formation and dissolution of partnerships. This course includes adjustments of bad debts, depreciation, depletion of fixed assets, adjusted and accrued income, various methods of inventory control, preparation of business budgets and promissory notes receivable and payable. It provides experience in initiating and maintaining an accounting system and in analyzing, interpreting, and synthesizing managerial problems using accounting information as a tool; and develops skill in applying principles used in accounting systems and methods commonly found in business. Accounting II is designed for students interested in studying accounting at the post-secondary level or entering the workforce.

INSURANCE OPERATIONS [6081]

Placement: 10-12

Credits: 1

PEIMS: 13016500

Prerequisite: Recommend Prin of Business, Marketing and Finance

Students will describe and abide by laws and regulations in order to manage business operations and transactions in the insurance industry; access, process, maintain, evaluate and disseminate information to assist in making decisions common to the insurance industry; and monitor, plan, and control day-to-day insurance organization activities to ensure continued business functioning.

BANKING AND FINANCIAL SERVICES [7980]

Placement: 10-12

Credits: 0.5

PEIMS: 13016300

Prerequisite: Recommend Prin of Business, Marketing and Finance

Students develop knowledge and skills in the economic, financial, technological, international, social, and ethical aspects of banking to become competent consumers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the operations, sales, and management of banking institutions to gain a complete understanding of how banks function within society.

STATISTICS AND BUSINESS DECISION MAKING [7963] CC, AC

Placement: 11-12

Credits: 1

PEIMS: 13016900

Prerequisite: Algebra II

Note: Qualifies as a 4th math credit.

Students will use a variety of graphical and numerical techniques to analyze patterns and departures from patterns to identify and manage risk that could impact an organization. Students will use probability as a tool for anticipating and forecasting data within business models to make decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

Career and Technical Education (CTE) Continued

FINANCIAL MATHEMATICS [3575] CC, AC

Placement: 10-12 Credits: 1 PEIMS: 13018000 Prerequisite: Algebra I

Note: Qualifies as a math credit.

This course is about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current projected economic factors. Financial mathematics will integrate career and postsecondary education planning into financial decision making. The mathematical process standards describe ways in which students are expected to engage in the content. The placement of the process standards at the beginning of the knowledge and skills listed for each grade and course is intentional.

Health Science

PRINCIPLES OF HEALTH SCIENCE [6011]

Placement: 9-12 Credits: 1 PEIMS: 13020200 Prerequisite: None

Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

HEALTH SCIENCE THEORY [6193] AC

Placement: 10-12 Credits: 1 PEIMS: 13020400 Prerequisite: Biology

This course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.

PHARMACOLOGY DC [6195] CC

Placement: 11-12 Credits: 1 PEIMS: 130209050 **College Credits: HPRS 2300 3hrs**
Prerequisite: Biology and Chemistry; Recommend a Health Science Course; Acceptance to CTC

This course is designed for students to study drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages.

PHARMACOLOGY [6197] CC

Placement: 11-12 Credits: 1 PEIMS: 13020950 Prerequisite: Biology and Chemistry; Recommend a Health Science course

This course is designed to study how natural and synthetic chemical agents such as drugs affect biological systems. Knowledge of the properties of therapeutic agents is vital in providing quality health care. It is an ever-changing, growing body of information that continually demands greater amounts of time and education from health care workers.

MEDICAL TERMINOLOGY [6186] HS&CC

Placement: 10-12 Credits: 1 PEIMS: 13020300 Prerequisite: None

This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology. To pursue a career in health science, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should understand that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to learn the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

Career and Technical Education (CTE)Continued

PRACTICUM IN HEALTH SCIENCE I - (CNA) [6555] CC / PRACTICUM IN HEALTH SCIENCE I - (CLINICAL ROTATION) [6556] CC, AC

Placement: 11-12 Credits: 2 (1 credit each) PEIMS: 13020500 Prerequisite: Health Science Theory and Biology

Note: Students must wear scrubs and specific immunizations are required.

The Health Science course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning. To pursue a career in the health science industry, students should recognize, learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others.

PRACTICUM IN HEALTH SCIENCE I - II (CMA) [6149, 6590] CC, AC

Placement: 11-12 Credits: 2 PEIMS: 13020500/13020510 Prerequisite: Health Science Theory and Biology

Note: Students must wear scrubs and specific immunizations are required. Students must provide their own transportation to and from clinical sites. The Health Science course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. As a Clinical Medical Assistant, the student will be trained to help the physician carry out procedures, care for patients, perform basic lab tests and administer medications. The Clinical Medical Assistant works in a physician's office or a clinic setting. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Practicum clinical hours are acquired outside of the school day.

PRACTICUM IN HEALTH SCIENCE II- PHLEBOTOMY [6550] CC, AC

Placement: 12 Credits: 2 PEIMS: 13020510 Prerequisite: Health Science Theory and Biology

Note: Students must wear scrubs. Specific immunizations are required. Students must provide their own transportation to and from clinical sites. The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students will be drawing blood and preparing to take the National Phlebotomy exam after graduation from high school.

PRACTICUM IN HEALTH SCIENCE I- PHARMACOLOGY, EXTENDED PRACTICUM IN HEALTH SCIENCE-PHARM [6198] CC, AC

Placement: 12 Credits: 3 (2, 1) PEIMS: 13020505 Prerequisite: Health Science Theory and Biology

Note: Students must wear scrubs and specific immunizations are required. Students will be prepared to take the Pharmacy Technician Certification exam after graduation from high school. Students must provide their own transportation to and from clinical sites. There are fees associated with this course to include finger printing and trainee fees.

The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

PRACTICUM IN HEALTH SCIENCE – EMT, EXTENDED PRACTICUM IN HEALTH SCIENCE II-EMT [6170] CC, AC

Placement: 12 Credits: 3 (2, 1) PEIMS: 13020515 Prerequisite: Health Science Theory and Biology

Note: Students must wear EMT uniforms. Specific immunizations are required. Students must provide their own transportation to and from clinical sites.

The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. EMT certification may be earned during the second semester of this course. Class focus is on emergency care of patients. Students will be prepared to take EMT registry exam after graduation from high school.

PRACTICUM IN HEALTH SCI I-DENTAL ASSISTANT/EXTENDED PRACTICUM IN HEALTH SCI-DENTAL ASSISTANT [6551] CC, AC

Placement: 12 Credits: 3 PEIMS: 13020505 Prerequisite: Health Science Theory and Biology

Note: Students must wear scrubs and specific immunizations are required. Students must provide their own transportation to and from clinical sites. There are fees associated with this course to include finger printing and trainee fees.

The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

PATHOPHYSIOLOGY (H) [6135] CC, AC

Placement: 11-12 Credits: 1 PEIMS: 13020800 Prerequisite: Biology and Chemistry; Recommend a Health Sci Course

Students conduct laboratory and field investigations, use the scientific methods during investigations and make informed decisions using critical thinking and scientific problem solving. Students study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of diseases. Students will differentiate between normal and abnormal physiology.

Career and Technical Education (CTE)Continued

ANATOMY AND PHYSIOLOGY P-AP [7653] HS & CC, AC

Placement: 11-12 Credits: 1 PEIMS: 13020600 Prerequisites: Biology and a 2nd Science credit; Recommend a Health Science Course

Note: Qualifies as a 4th science credit.

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

ANATOMY AND PHYSIOLOGY [7665]

Placement: 11-12 Credits: 1 PEIMS: 13020600 **College Credits: BIOL 2401/2402 8 hrs**
Prerequisite: Biology and a 2nd Science credit; Recommend a Health Science Course and Physics concurrently

This course addresses the structure and function of the human body. This course covers the fundamental and principle concepts of human anatomy, physiology and micro biology. Upon completion, students should be able to identify structures and functions of the human body and describe microorganisms and their significance in health and disease.

Hospitality and Tourism

PRINCIPLES OF HOSPITALITY & TOURISM(CTC) [6120]

Placement: 11-12 Credits: 1 PEIMS: 13022200 **College Credits: IFWA1318, HAMG1321 6 hrs**

Note: This course is taken concurrently with Culinary Arts [6121].

This course is taught in a 3-hour block as a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences.

HOTEL MANAGEMENT [6176] CC

Placement: 10-12 Credits: 1 PEIMS: 13022300 Prerequisites: Recommend Principles of Hospitality & Tourism

This course focuses on the knowledge and skills needed to pursue staff and management positions available in the hotel industry. This in-depth study of the lodging industry includes departments within a hotel such as front desk, food and beverage, housekeeping, maintenance, human resources and accounting. This course will focus on, but not be limited to, professional communication, leadership, management, human resources, technology and accounting.

TRAVEL AND TOURISM MANAGEMENT [6177] CC

Placement: 10-12 Credits: 1 PEIMS: 13022500 Prerequisites: Recommend Principles of Hospitality & Tourism

This course incorporates management principles and procedures of the travel and tourism industry as well as destination geography, airlines, international travel, cruising, travel by rail, lodging, recreation, amusements, attractions, and resorts. Employment qualifications and opportunities are also included in this course.

HOSPITALITY SERVICES [6178] CC, AC

Placement: 11-12 Credits: 2 PEIMS: 13022800 Prerequisites: Recommend Principles of Hospitality and Tourism, Hotel Management and Travel & Tourism Management

Students are provided the academic and technical preparation to pursue high-demand and high-skill careers in hospitality related industries. This course provides a sequential, standards-based program that integrates hands-on and project-based instruction. Standards are designed to prepare students for nationally recognized industry certifications, postsecondary education, and entry-level careers. In addition, Hospitality Services is designed so that performance standards meet employer expectations, enhancing the employability of students. Instruction may be delivered through laboratory training, internships, mentoring, or job shadowing.

Career and Technical Education (CTE)Continued

PRACTICUM IN HOSPITALITY SERVICES [6145] CC, AC

Placement: 12 Credits: 2 PEIMS: 13022900 Prerequisites: Recommend Hospitality Services

This course is a unique practicum experience providing opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Hospitality Services integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skill in a fast-changing workplace. Students are taught employability skills, including job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development.

CULINARY ARTS(CTC) [6121]

Placement: 11-12 Credits: 2 PEIMS: 13022600 Prerequisites: Requires acceptance to CTC

College Credits: CHEF1301,CHEF 1305 6 hrs

Note: This course is taken concurrently with Principles of Hospitality & Tourism [6120]

This course is taught in a multiple-hour block as a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences.

PRACTICUM IN CULINARY ARTS (CTC)[6122] AC

Placement: 12 Credits: 2 PEIMS: 13022700 Prerequisite: Culinary Arts

College Credits: CHEF 1341,PSTR 1301 6 hrs

Note: This course is taken concurrently with Practicum in Culinary Arts II [6123]

This course integrates academic, career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast changing workplace.

PRACTICUM IN CULINARY ARTS II(CTC)[6123] AC

Placement: 12 Credits: 2 PEIMS: 13022710 Prerequisite: Culinary Arts

College Credits: HAMG 2301,RSTO 1321 5hrs

Note: This course is taken concurrently with Practicum in Culinary Arts [6122]

This course integrates academic, career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast changing workplace.

FOOD SCIENCE [7958] AC

Placement: 11-12 Credits: 1 PEIMS: 13023000 Prerequisite: 3 credits of Science, including Chemistry and Biology; Recommend Principles of Hospitality & Tourism

This laboratory course provides foundation training in food science and technology. Food science principles, nutrition and wellness; food technology; world food supply, managing multiple family, community and wage-earner roles and career options are explored. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. The course focuses on chemical and physical changes affecting food product development, food safety and sanitation standards and therapeutic diets. Market research, legal and current issues and food policies are examined through laboratory activities.

Human Services

PRINCIPLES OF HUMAN SERVICES [6012]

Placement: 9-12 Credits: 1 PEIMS: 13024200 Prerequisite: None

This laboratory course provides students with opportunities for learning and developing skills needed to survive in the real world. Students will be expected to furnish some supplies during portions of this course.

CHILD DEVELOPMENT [6118]

Placement: 10-12 Credits: 1 PEIMS: 13024700 Prerequisite: Recommend Principles of Human Services

This technical laboratory course addresses knowledge and skills related to child growth and development from prenatal through school-age children equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

DOLLARS AND SENSE [8561]

Placement: 10-12 Credits: 0.5 PEIMS: 13024300 Prerequisite: Recommend Principles of Human Services

Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and businesses. Students apply critical thinking skills to analyze financial options based on current and projected economic factors. Students will determine methods of achieving long-term financial goals through investment, tax planning, asset allocation, risk management, retirement planning, and estate planning.

Career and Technical Education (CTE)Continued

LIFETIME NUTRITION AND WELLNESS [7602]

Placement: 10-12 Credits: 0.5 PEIMS: 13024500 Prerequisite: Recommend Principles of Human Services, Principles of Hospitality and Tourism, or Principles of Health Science

This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

INTERPERSONAL STUDIES [7599]

Placement: 11-12 Credits: 0.5 PEIMS: 13024400 Prerequisite: Recommend Principles of Human Services, Principles of Hospitality and Tourism, Principles of Health Science, or Principles of Education and Training

This course examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services.

COSMETOLOGY I [7629] CC

Placement: 11-12 Credits: 3 PEIMS: 13025100, 13025200 Prerequisite: None

This course begins preparation for the State Board Operator Licensure in the field of Cosmetology. Instruction includes rules and regulations of the Texas Department of Licensing and Regulation Handbook, haircutting, hairstyling, hair coloring, manicures, pedicures, artificial nails, permanent waving, chemical hair relaxing, facials, and anatomy and physiology. This two-year program allows students to obtain 500 hours per year, for a total of 1000 hours upon completion of program. Students planning to enroll in this program must have a \$25.00 money order made out to the Texas Department of Licensing and Regulation for the required permit the first week of instruction.

COSMETOLOGY II [7630] CC, AC

Placement: 12 Credits: 3 PEIMS: 1302050, 13025300 Prerequisite: Cosmetology I

This course continues preparation for the State Board Operator Licensure exam. Students must pass the State Board exam to become a licensed cosmetologist in the state of Texas. Instruction includes rules and regulations of the Texas Department of Licensing and Regulation Handbook for Haircutting, hairstyling, hair coloring, manicures, pedicures, artificial nails, permanent waving, chemical hair relaxing, facials, anatomy and physiology, salon management and product sales. Student's clientele consists of other students, family, friends, and the general public. To receive credits for this course, the student must have completed all practical applications and must score an 80 or better on the state prep test prior to taking the Texas Department of Licensing and Regulation Exam for Cosmetologist. Upon passing the state board exams, the student will be a professional licensed cosmetologist in the state of Texas.

Information Technology

PRINCIPLES OF INFORMATION TECHNOLOGY [7610]

Placement: 9-12 Credits: 1 PEIMS: 13027200 Prerequisite: None

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

DIGITAL MEDIA [7576]

Placement: 10-12 Credits: 1 PEIMS: 13027800 Prerequisite: None

In this course students will analyze and assess current and emerging technologies while designing and creating multimedia projects and address customer needs and resolving problems. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment.

WEB TECHNOLOGIES [3107] CC

Placement: 10-12 Credits: 1 PEIMS: 13027900 Prerequisite: Recommend Principles of Information Technology

Through the study of web technologies and design, students learn to make informed decisions and apply the decisions to the field of information technology. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment by creating personal websites using Adobe Dreamweaver, Adobe Photoshop, and Adobe Bridge. Through the course students also learn online web design sites such as WordPress, Weebly, and Wix. Students also gain an understanding and use of social media sites, web browsers, internet search parameters, and online storage sites.

COMPUTER MAINTENANCE [6179] CC

Placement: 10-12 Credits: 1 PEIMS: 13027300 Prerequisite: Recommend Principles of Information Technology

In this course, students will acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies.

Career and Technical Education (CTE) Continued

NETWORKING [6056] CC

Placement: 10-12 Credits: 1 PEIMS: 13027400 Prerequisite: Recommend Principles of Information Technology and Computer Maintenance

Students develop knowledge of the concepts and skills related to telecommunications and data networking technologies and practices in order to apply them to personal and career development. Students will have opportunities to reinforce, apply and transfer knowledge and skills to a variety of settings and problems.

PRACTICUM IN INFORMATION TECHNOLOGY - CYBER SECURITY [6059] CC, AC

Placement: 12 Credits: 2 PEIMS: 13028000 Prerequisite: Minimum of 2 Information Technology courses

Students gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services and systems. Knowledge and skills in the proper use of analytical skills and application of information technology concepts & standards are essential to prepare students for success in a technology-driven society. Critical thinking, information technology experience & product development may be conducted in a classroom setting with an industry mentor, as an unpaid internship or as career preparation.

COMPUTER PROGRAMMING I [6574] CC

Placement: 10-12 Credits: 1 PEIMS: 13027600 Prerequisite: Recommend Prin of Info Tech and Algebra I

In this course, students will acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer programming. Students will apply technical skills to address business applications of emerging technologies.

COMPUTER PROGRAMMING II [6591] CC, AC

Placement: 11-12 Credits: 1 PEIMS: 13027700 Prerequisite: Recommend Prin of Info Tech and Computer Prog I

In this course, students will expand their knowledge and skills in structured programming techniques and concepts by addressing more complex problems and developing comprehensive programming solutions. Students will analyze the social responsibility of business and industry regarding the significant issues relating to environment, ethics, health, safety, and diversity in society and in the workplace as related to computer programming. Students will apply technical skills to address business applications of emerging technologies.

Law, Public Safety, Corrections and Security

PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTION, AND SECURITY [6192]

Placement: 9-12 Credits: 1 PEIMS: 13029200 Prerequisite: None

This course introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, protective services, and corrections.

LAW ENFORCEMENT I [7510]

Placement: 9-12 Credits: 1 PEIMS: 13029300 Prerequisite: Recommend Principles of Law

Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.

LAW ENFORCEMENT II [7511] AC

Placement: 11-12 Credits: 1 PEIMS: 13029400 Prerequisite: Recommend Law Enforcement I

Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.

COURT SYSTEMS & PRACTICES [7524] AC

Placement: 10-12 Credits: 1 PEIMS: 13029600 Prerequisite: Recommend Law Enforcement I

In this course students discover the role of judiciary in the criminal justice system. Concepts like prosecution, right to counsel, pre-trial release, rules of evidence, and sentencing are defined and analyzed. Grand juries and the adjudication processes will be examined. Students may participate in mock trials.

Career and Technical Education (CTE)Continued

CORRECTIONAL SERVICES [7523] AC

Placement: 10-12 Credits: 1 PEIMS: 13029700 Prerequisite: Recommend Principles of Law

This course is designed to focus on the function of jail custodial staff with emphasis on the correctional officer. Institutional procedures are reviewed including reception, classification, program assignment, and release procedures. Portions of this program will be advanced laboratory experiences dealing with recognition, apprehension, and punishment phases of crime. This program will provide activities that will lead to advanced training in the law enforcement field, will form a sound basis for the student to pursue a degreed professional program leading to certification, and will provide adequate preparation for those students who wish employment immediately after graduation.

CRIMINAL INVESTIGATION [6611]

Placement: 12 Credits: 1 PEIMS: 13029550 Prerequisite: Recommend Principles of Law

Criminal Investigation is a course that introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence.

FIREFIGHTER I [7793] / PROJECT BASED RESEARCH-FIREFIGHTER [6191] Fire Academy

Placement: 11-12 Credits: 2, 1 PEIMS: 13029900, 12701500 Prerequisite: Recommend Principles of Law

Firefighter I introduce students to firefighter safety and development. Students will analyze Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protections equipment, and the principles of fire safety.

FIREFIGHTER II [7728] Fire Academy, AC

Placement: 12 Credits: 3 PEIMS: 13030000 Prerequisite: Firefighter I; Recommend Principles of Law Firefighter

II is the second in a series for students studying firefighter safety and development. Students will understand Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protection equipment, and the principles of fire safety. Students will use procedures for use of fire extinguishers, ladders, fire hoses, and water supply equipment. EMT certification may be earned during the second semester of this course.

FORENSIC SCIENCE [7964] AC

Placement: 11-12 Credits: 1 PEIMS: 13029500 Prerequisite: Biology & Chemistry; Recommend any Law, Public Safety, Corrections, and Security course concurrently

Note: Qualifies as a 4th science credit.

This course uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scenes, questioning, interviewing criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.

Manufacturing

WELDING I [7521] CC

Placement: 10-12 Credits: 2 PEIMS: 13032300 Prerequisite: Recommend Algebra I

Welding Technology is a two-year, multi-credit course. The goal of the program is to train students to the American Welding Society's "AWS QC 10" specification for qualification and certification for entry-level welders. "AWS QC 10" is a nationally recognized standard for welders. Subjects taught are oxygen fuel cutting, shielded metal arc welding, gas metal arc welding; gas tungsten arc welding, plasma arc cutting, carbon arc cutting, blueprint reading and AWS weld symbol knowledge. Safety, both personal and job site, are taught and stressed during all phases of welder training. Completers of this course of study are eligible to test for welder certifications and are registered with the AWS after passing the end of the course exam.

WELDING II [7666] CC, AC

Placement: 11-12 Credits: 2 PEIMS: 13032400 Prerequisite: Welding I; Recommend Algebra I or Geometry

Curriculum has been enhanced to match college level course. Welding Technology is a two-year multi-credit course in various welding processes and uses. The goal of the program is to train students to the American Welding Society's "AWS QC 10" specification for qualification and certification for entry-level welders. "AWS QC 10" is a nationally recognized standard for welders. Subjects taught are oxygen fuel cutting, shielded metal arc welding, gas metal arc welding; gas tungsten arc welding, plasma arc cutting, carbon arc cutting, blueprint reading and AWS weld symbol knowledge. Safety, both personal and job site, are taught and stressed using all phases of welder training. Completers of this course of study are eligible to test for welder certifications and are registered with the AWS after passing the end of the course exam.

Career and Technical Education (CTE)Continued

PRACTICUM IN MANUFACTURING-WELDING [6129] CC, AC

Placement: 12 Credits: 2 PEIMS: 13033000 Prerequisite: Completion of grades 9-11 in Manufacturing Sequence

This course is an unpaid capstone experience for students participating in a coherent sequence of courses in the welding cluster. The practicum is designed to give students supervised practical application of knowledge and skills. Experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. Curriculum has been enhanced to match the college level course. Students completing this course of study are eligible to test for welder certifications. Students must wear work shirts, boots and jeans. Students must provide their own transportation to job sites. Some practicum sites may require drug testing.

Marketing

PRINCIPLES OF BUSINESS, MARKETING AND FINANCE [7519]

Placement: 9-12 Credits: 1 PEIMS: 13011200 Prerequisite: None

This course will allow students to reinforce, apply and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing and finance. Students will analyze the sales process and financial management principles while gaining knowledge and skills in economies and private enterprise systems, the impact of a global business, marketing goods and services, advertising and product pricing.

ADVERTISING [7950] CC

Placement: 9-12 Credits: 0.5 PEIMS: 13034200 Prerequisite: Recommended Prin of Business, Marketing & Finance

Advertising and Sales Promotion is a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. Students explore the social, ethical, and legal issues of advertising.

ENTREPRENEURSHIP [6573] CC

Placement: 9-12 Credits: 1.0 PEIMS: 13034400 Prerequisite: Recommended Prin of Business, Marketing & Finance

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

FASHION MARKETING [7516] CC

Placement: 10-12 Credits: 0.5 PEIMS: 13034300 Prerequisite: Recommended Prin of Business, Marketing & Finance

Fashion Marketing is designed to provide students with knowledge of the various business functions in the fashion industry. Students in Fashion Marketing will gain a working knowledge of promotion, textiles, merchandising, mathematics, selling, visual merchandising, and career opportunities.

SPORTS AND ENTERTAINMENT MARKETING [7729] CC

Placement: 9-12 Credits: 0.5 PEIMS: 13034600 Prerequisite: Recommend Prin of Business, Marketing & Finance

This course will provide students with an understanding of the marketing concepts that apply to sports and sporting events and entertainment. The student will learn about promotional plans, sponsorship proposals, endorsement contracts, and sports and entertainment marketing plans.

SOCIAL MEDIA MARKETING [6148] CC

Placement: 10-12 Credits: 0.5 PEIMS: 13034650 Prerequisites: Recommend Prin of Business, Marketing & Finance or any marketing course

Social media marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. The students will learn how to manage a successful social media presence for an organization; techniques for gaining customer and consumer buy-in to achieve their marketing goals; and how to properly select the social media platforms to engage consumers, monitor, and measure the results of these efforts.

PRACTICUM IN MARKETING [6147] CC, AC

Placement: 12 Credits: 2 PEIMS: 13034800 Prerequisites: Recommend Prin of Business, Marketing & Finance

Through course required internships, students gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. Students will illustrate appropriate management and research skills to create the marketing mix. This course covers technology, communication, and customer-service skills. The practicum is designed to give students supervised practical application of previously studied knowledge and skill. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. The practicum course is an unpaid experience for students participating in a coherent sequence of career and technical education courses in marketing education.

Career and Technical Education (CTE)Continued

Science, Technology, Engineering, and Mathematics

ROBOTICS I [7552]

Placement: 9-12 Credits: 1 PEIMS: 13037000 Prerequisite: Recommend Principles of Applied Engineering
Students will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementation of the design process, students will transfer advanced academic skills to component designs in a project-based environment. Students will build prototypes or use simulation software to test their designs. This is a hands-on project based introduction to robotics using student built robots. Students will create, build and program robots and prepare for competitions using these robots.

ROBOTICS II [6588] CC, AC *STEM Academy

Placement: 10-12 Credits: 1 PEIMS: 13037050 Prerequisite: Robotics I
This course allows students enrolled in this course to explore artificial intelligence and programming in the robotic and automation industry. Through the implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

ENGINEERING MATHEMATICS [7966] AC

Placement: 11-12 Credits: 1 PEIMS: 13036700 Prerequisite: Algebra II

Note: Qualifies as a 4th math credit

Engineering Mathematics is a course where students solve and model robotic design problems. Students use a variety of mathematical methods and models to represent and analyze problems involving data acquisition, spatial applications, electrical measurement manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and robotics with computer programming.

ENGINEERING SCIENCE [6502] AC

Placement: 9-12 Credits: 1 PEIMS: 13037500 Prerequisites: Algebra I and Biology, Chemistry, IPC or Physics; Recommend Geometry

This course will enable students to understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes will help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course will be taught from a practical "hands on" perspective. This course involves discussion about the social and political consequences of technological change.

BIOTECHNOLOGY I [7968]

Placement: 11-12 Credits: 1 PEIMS: 13036400 Prerequisite: Biology; Recommend Chemistry and Prin of Bioscience

Note: Qualifies as a 4th science credit

Students enrolled in this course will apply advanced academic knowledge and skills to the emerging fields of biotechnology such as agriculture, medical, regulatory, and forensics. Students will have the opportunity to use sophisticated laboratory equipment, perform statistical analysis, and practice quality-control techniques.

AC/DC ELECTRONICS [6583] CC *STEM Academy

Placement: 10-12 Credits: 1 PEIMS: 13036800 Prerequisite: Recommend Prin of Applied Engineering
AC/DC Electronics focuses on the basic electricity principles of alternating current/ direct current (AC/DC) circuits. Students will demonstrate knowledge and applications of circuits, electronic measurement, and electronic implementation. Through use of the design process, students will transfer measurement, and academic skills to component designs in a project-based environment. Students will use a variety of computer hardware and software applications to complete assignments and projects. Additionally, students will explore career opportunities, employer expectations, and educational needs in the electronics industry.

ENGINEERING DESIGN AND PROBLEM SOLVING [7967] AC

Placement: 11-12 Credits: 1 PEIMS: 13037300 Prerequisite: Algebra I and Geometry; Recommend 2 Science, Technology, Engineering, and Math sequence courses

Note: Qualifies as a 4th science credit

This course reinforces and integrates skills learned in math and science courses to solve problems with real world applications. Students use the engineering design process cycle to investigate, design, plan, create, and evaluate solutions.

ENGINEERING DESIGN AND PRESENTATION I [6579] *STEM Academy

Placement: 10-12 Credits: 1 PEIMS: 13036500 Prerequisite: Algebra I; Recommend Prin of Applied Eng

This course will allow students enrolled in this course to demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.

Career and Technical Education (CTE)Continued

ENGINEERING DESIGN AND PRESENTATION II [6580] AC *STEM Academy

Placement: 11-12 Credits: 1 PEIMS: 13036600 Prerequisite: Algebra I & Geometry; Recommend Prin of Applied Eng or Eng Design and Presentation I

This course will allow students enrolled in this course to demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs.

PRACTICUM IN SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS – RENEWABLE ENERGY [6586] CC, AC *STEM Academy

Placement: 12 Credits: 2 PEIMS: 13037400 Prerequisite: Algebra I and Geometry; Recommend 2 STEM credits

This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

PRACTICUM IN SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS – ROBOTICS [6587] CC, AC *STEM Academy

Placement: 12 Credits: 2 PEIMS: 13037400 Prerequisite: Algebra I and Geometry; Recommend 2 STEM credits

This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

SOLID STATE ELECTRONICS [6589] AC *STEM Academy

Placement: 11-12 Credits: 1 PEIMS: 13036900 Prerequisite: AC/DC Electronics

This course allows students enrolled in this course to demonstrate knowledge and applications of advanced circuits, electrical measurement, and electrical implementation used in the electronics and computer industries. Students will transfer advanced academic skills to apply engineering principles and technical skills to troubleshoot, repair, and modify electronic components, equipment, and power electronic systems in a project-based environment. Additionally, students will explore career opportunities, employer expectations and educational needs in the electronics industry.

PRINCIPLES OF TECHNOLOGY [7884] HS & CC

Placement: 10-12 Credits: 1 PEIMS: 13037100 Prerequisite: 1 Science Credit and Algebra I

This course will encompass an approach to understanding mechanical fluid, electrical and thermal systems; the laws of motion and force; and the concepts of resistance, energy transformation in relation to technology.

SCIENTIFIC RESEARCH AND DESIGN I – INTRODUCTION TO ENGINEERING [6584]

College Credits: ENGR 1201 2hrs

*STEM Academy

Placement: 11-12 Credits: 0.5 PEIMS: 13037200 Prerequisite: Ind St in Math College Alg [3561] with a "C" or above

The course is an introduction to engineering as a discipline and a profession. It includes instruction in the application of mathematical and scientific principles to the solution of practical problems for the benefit of society.

SCIENTIFIC RESEARCH AND DESIGN I – ENGINEERING MECHANICS–STATICS [6585]

College Credits: ENGR 2301 3hrs

*STEM Academy

Placement: 11-12 Credits: 0.5 PEIMS: 13037200 Prerequisite: Ind St in Math 2 Calc I DC [3577] & Co-requisite Ind St in Math 2 Calc II DC [3578]

This course reviews the basic theory of engineering mechanics, using calculus, involving the description of forces, moments, and couples acting on stationary engineering structures; equilibrium in two and three dimensions; free-body diagrams; friction; centroids; centers of gravity; and moments of inertia.

SCIENTIFIC RESEARCH AND DESIGN II – ENGINEERING MECHANICS-DYNAMICS [6592]

College Credits: ENGR 2302 3hrs

*STEM Academy

Placement: 11-12 Credits: 0.5 PEIMS: 13037210 Prerequisite: Scientific Research and Design I - Engineering Mechanics-Statics [6585]

This course reviews the basic theory of engineering mechanics, using calculus, involving the motion of particles, rigid bodies, and systems of particles; Newton's Laws; work and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems.

SCIENTIFIC RESEARCH AND DESIGN II – ELECTRIC CIRCUITS [6593] College Credits: ENGR 2305 3hrs

*STEM Academy

Placement: 11-12 Credits: 0.5 PEIMS: 13037210 Prerequisite: Independent Study in Math 2 Calc II DC [3578]

This course will cover principles of electrical circuits and systems, basic circuit elements, Kirchhoff's laws, node and mesh analysis, DC circuit analysis, operational amplifiers, transient and sinusoidal steady-state analysis, first-and-second-order circuits, and Bode plots.

Career and Technical Education (CTE)Continued

SCIENTIFIC RESEARCH AND DESIGN II –ENVIRONMENTAL SCIENCE I [6594]

College Credits: ENVR 1401 4hrs

*STEM Academy

Placement: 11-12

Credits: 0.5

PEIMS: 13037210

Prerequisite: Biology, Chemistry, IPC, or Physics

This course includes a survey of the forces, including humans that shape our physical and biologic environment, and how they affect life on Earth. It is an introduction to the science and policy of global and regional environmental issues, including pollution, climate change, and sustainability of land, water, and energy resources.

SCIENTIFIC RESEARCH AND DESIGN III–ZOOLOGY [6595]

College Credits: BIOL 1413 4hrs

*STEM Academy

Placement: 11-12

Credits: 0.5

PEIMS: 13037220

Prerequisite: Biology, Chemistry, IPC, or Physics

This course includes the fundamental biological concepts relevant to animals, including systematics, evolution, structure and function, and cellular and molecular metabolism, reproduction, development, diversity, phylogeny, and ecology.

SCIENTIFIC RESEARCH AND DESIGN III –MICROBIOLOGY [6596]

College Credits: BIOL 2421 4hrs

Placement: 11-12

Credits: 0.5

PEIMS: 13037220

Prerequisite: Sci Res & Des Chem [4832A] & Sci Res and Design Biol [4831]

Principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment. Lab activities will reinforce concepts discussed in lecture.

SCIENTIFIC RESEARCH AND DESIGN L – ORGANIC CHEMISTRY [6597]

College Credits: CHEM 2423 4hrs

*STEM Academy – Local credit only

Placement: 11-12

Credits: 0.5

PEIMS: 84800SRD

Prerequisite: Sci Res & Des Chem [4832]

In this course, the fundamental principles of organic chemistry will be studied, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules.

SCIENTIFIC RESEARCH AND DESIGN L –ORGANIC CHEMISTRY II [6598]

College Credits: CHEM 2425 4hrs

*STEM Academy – Local credit only

Placement: 11-12

Credits: 0.5

PEIMS: 84800SRD

Prerequisite: SRD L- Organic Chem [6597]

In this course, advanced principles of organic chemistry will be studied, including the structure, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules.

SCIENTIFIC RESEARCH AND DESIGN L –MECHANICS OF MATERIALS [6599]

College Credits: ENGR 2332 3hrs

*STEM Academy – Local credit only

Placement: 11-12

Credits: 0.5

PEIMS: 84800SRD

Prerequisite: SRD I- Engineer Mech [6585]

This course will cover stresses, deformations, stress-strain relationships, torsions, beams, shafts, columns, elastic deflections in beams, combined loading, and combined stress.

SCIENTIFIC RESEARCH AND DESIGN II – PHYSICAL GEOLOGY [6600]

College Credits: GEOL 1403 4hrs

*STEM Academy

Placement: 11-12

Credits: 0.5

PEIMS: 13037210

Prerequisite: Biology, Chemistry, IPC, or Physics

This course is an introduction to the study of the materials and processes that have modified and shaped the surface and interior of Earth over time. These processes are described by theories based on experimental data gathered from field observations.

SCIENTIFIC RESEARCH AND DESIGN III – PHYSICS I [6601]

College Credits: PHYS 2425 4hrs

*STEM Academy

Placement: 11-12

Credits: 0.5

PEIMS: 13037220

Prerequisite: Ind Study Math II-Calc I DC [3577]

This course includes the fundamental principles of physics, using calculus, for science, computer science, and engineering majors; the principles and applications of classical mechanics, including harmonic motion, physical systems and thermodynamics; and emphasis on problem solving.

SCIENTIFIC RESEARCH AND DESIGN III – PHYSICS II [6602]

College Credits: PHYS 2426 4hrs

*STEM Academy

Placement: 11-12

Credits: 0.5

PEIMS: 13037220

Prerequisite: SRD III- Physics [6601] and Ind St Math II-Cal II DC [3578]

Career and Technical Education (CTE)Continued

SCIENTIFIC RESEARCH AND DESIGN I–PHYSICS [6606] SCIENTIFIC RESEARCH AND DESIGN III–PHYSICS [4835]

PEIMS: 13037200
PEIMS: 13037220

College Credits: PHYS 1401/1402 8hrs
College Credits: PHYS 1401/1402 8hrs

*STEM Academy

Placement: 11-12 Credits: 1

Prerequisite: Ind St in Math Col Alg [3561] & Ind St Math [3562]

This course includes the principles of physics for science, computer science, and engineering majors, using calculus, involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound light, and optics.

Transportation, Distribution and Logistics

AUTOMOTIVE TECHNOLOGY I-MAINTENANCE & LIGHT REPAIR [6083] CC

Placement: 10-12 Credits: 2 PEIMS: 13039600 Prerequisite: None

Note: Students must wear work shirts, boots and jeans.

This curriculum is highly technical and strong math and analytical skills are needed. This course is designed to provide job specific training for entry-level employment in the automotive engine repair and service career field. Instruction emphasizes use of repair manuals, service and/or repair of basic automobile components: fuel systems, engines, emission controls, power trains, chassis, electrical systems, brakes, heating and air conditioning. Instruction includes safety, career opportunities, leadership, and employment skills.

AUTOMOTIVE TECHNOLOGY II-AUTOMOTIVE SERVICE [6084] CC, AC

Placement: 11-12 Credits: 2 PEIMS: 13039700 Prerequisite: Automotive Technology I

Note: Students must wear work shirts, boots and jeans.

This curriculum is highly technical and strong math and analytical skills are needed. This course is designed to provide job specific training for entry-level employment in the automotive engine repair and service career field. Students will receive advanced instruction emphasizing use of repair manuals, service and/or repair of basic automobile components: fuel systems, engines, emission controls, power trains, chassis, electrical systems, brakes, heating and air conditioning. Instruction includes safety, career opportunities, leadership, and employability skills. Coveralls must be worn in the lab.

PRACTICUM IN TRANSPORTATION SYSTEMS-AUTOMOTIVE TECHNOLOGY [6063] CC, AC

Placement: 12 Credits: 2 PEIMS: 13040450 Prerequisite: Completion of grades 9-11 in Transportation, Distribution, and Logistics Sequence

Note: Students must wear work shirts, boots and jeans. Students must provide their own transportation to job sites. Some practicum sites may require drug testing.

This curriculum is highly technical, strong math and analytical skills are needed. This course is an unpaid capstone experience for students participating in a coherent sequence of courses in this cluster. The practicum is designed to give students supervised practical application of knowledge and skills. Experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories.

COLLISION REPAIR [6180] CC

Placement: 10-12 Credits: 2 PEIMS: 13039800 Prerequisite: None

This course includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing.

PAINT & REFINISHING [6181] CC, AC

Placement: 11-12 Credits: 2 PEIMS: 13039900 Prerequisite: Recommended Collision Repair

This course includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive paint and refinishing.

PRACTICUM IN TRANSPORTATION SYSTEMS – COLLISION REPAIR & REFINISHING [6182] CC, AC

Placement: 12 Credits: 2 PEIMS: 13040450 Prerequisite: Completion of grades 9-11 in Transportation, Distribution, and Logistics Sequence

This course is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or worked based.

Career and Technical Education (CTE)Continued

Career Development

CAREER PREPARATION I [7947] CC, AC

Placement: 11-12 Credits: 2 PEIMS: 12701300 Prerequisite: None

CAREER PREPARATION I [7778] CC, AC

Placement: 11-12 Credits: 3 PEIMS: 12701305 Prerequisite: 1 Advanced CTE Course in Sequence

Note: Students must work a minimum of 15 hours weekly and are required to join a CTE student organization.

Through course required employment, students gain knowledge and skills that help them become proficient in one or more career/business areas. This course covers technology, communication, and customer service skills. The course is designed to give students supervised practical application of previously studied knowledge and skills.

CAREER PREPARATION II [7948] CC, AC

Placement: 12 Credits: 2 PEIMS: 12701400 Prerequisite: None

CAREER PREPARATION II [7779] CC, AC

Placement: 12 Credits: 3 PEIMS: 12701405 Prerequisite: Career Prep I and 1 Advanced CTE Course in Seq

Note: Students must work a minimum of 15 hours weekly and are required to join a CTE student organization.

Through course required employment, students gain knowledge and skills that help them become proficient in one or more career/business areas. This course covers technology, communication, and customer service skills. The course is designed to give students supervised practical application of previously studied knowledge and skills.

Military Science

Note: Completion of one to three years of JROTC may qualify students for a higher rank when they enlist in the armed forces. Satisfactory completion of three years of JROTC can lead to advanced placement credit in the Senior ROTC Program at the college level.

Applicants for enrollment in JROTC/NOCC must complete a Privacy Act and Health Statement signed by the cadet and a parent or guardian.

In accordance with Cadet Command Regulation 145-2, each cadet must be able to participate in the physical education program in the school (paragraph 3-11), participate in the JROTC physical fitness component, "Cadet Challenge" (paragraph 8-9) and wear a Class A or B uniform, issued at no cost to the parent or guardian, at least once per week (paragraph 10-4).

The JROTC Program is designed to teach high school students the value of citizenship, leadership, service to the community, personal responsibility, and a sense of accomplishment, while instilling in them self-esteem, teamwork, and self-discipline. The program's focus is reflected in its mission statement, "to motivate young people to be better citizens." It prepares high school students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. The program is stimulus for promoting graduation from high school, and provides instruction and rewarding opportunities, which will benefit the cadet, community, and nation.

The curriculum begins with the basics in ROTC 1 and proceeds to the more complex by ROTC 4, each level designed to be a building block as the cadet proceeds through 4 years in the Junior ROTC program. Cadets will take on increasing levels of responsibility in terms of leadership positions from their ROTC II to ROTC IV years.

JUNIOR RESERVE OFFICERS TRAINING ROTC I [4051]

Placement: 9-12 Credits: 1 PEIMS: PES00004 Prerequisites: None

Note: PE Substitute

ROTC I is designed to give cadets a greater appreciation of their American heritage and patriotism, as well as the history and purpose of Army JROTC. It also teaches basic principles of leadership, being a responsible team member, and positive self-image. Finally, it overviews self-awareness, learning styles, and basic communication skills, including how to become a better listener and active leader.

JUNIOR RESERVE OFFICERS TRAINING ROTC I [4055]

Placement: 9-12 Credits: 1 PEIMS: 03160100 Prerequisites: None

Note: This course is not a PE Substitute.

ROTC I is designed to give cadets a greater appreciation of their American heritage and patriotism, as well as the history and purpose of Army JROTC. It also teaches basic principles of leadership, being a responsible team member, and positive self-image. Finally, it overviews self-awareness, learning styles, and basic communication skills, including how to become a better listener and active learner.

JUNIOR RESERVE OFFICERS TRAINING ROTC II [4052]

Placement: 10-12 Credits: 1 PEIMS: 03160200 Prerequisite: ROTC I, Acceptable standard of conduct

ROTC II is designed to teach ways to achieve a healthy life style through good nutrition, as well as first aid for both emergency and non-emergency situations. It not only gives a broad overview of maps and map reading skills, but examines the foundations of the American political system. Selected cadets will begin to serve in squad leader positions during their second year.

Military Science Continued

JUNIOR RESERVE OFFICERS TRAINING ROTC III [4053]

Placement: 11-12 Credits: 1 PEIMS: 03160300 Prerequisite: ROTC II, Acceptable standard of conduct

ROTC III is designed to introduce areas which build upon what cadets learned in ROTC I and ROTC II. It emphasizes college and career planning skills, as well as military career opportunities. Cadets learn such skills as decision making and problem solving, becoming a better speaker and writer, negotiating, conflict resolution, time management and team development. Cadets will assume such leadership positions as Squad Leader, Platoon Sergeant, Platoon Leader and First Sergeant.

JUNIOR RESERVE OFFICERS TRAINING ROTC IV [4054]

Placement: 12 Credits: 1 PEIMS: 03160400 Prerequisite: ROTC III, Acceptable standard of conduct

ROTC IV presents the characteristics of our armed forces and the unique role of each service -- Army, Air Force, Navy, Marines, and Coast Guard -- in the defense of our nation. It also teaches the theory of power bases and influence, styles of leadership, management, communication, motivation and teaching skills. Cadets exercise various leadership positions within the cadet battalion such as Battalion Commander, Battalion Executive Officer, Primary Staff, and Company Commander.

Advancement Via Individual Determination (AVID)

ADVANCEMENT VIA INDIVIDUAL DETERMINATION I [1011]

Placement: 9-11 Credits: 1 PEIMS: N1290001 Prerequisite: Placement in AVID program, agreement to enroll in rigorous courses.

ADVANCEMENT VIA INDIVIDUAL DETERMINATION II-IV (H) [1022, 1023, 1024]

Placement: 10-12 Credits: 1 each PEIMS: N1290002, N1290030, N1290033 Prerequisite: Placement in AVID program, agreement to enroll in rigorous courses

AVID is a structured non-traditional college preparatory academic elective that directly supports students in rigorous curriculum. Students must apply for entry into the elective. The process includes, but is not limited to, a written application and an oral interview. Grades, Standardized Test scores, attendance, and behavior records are all reviewed as part of the process. The curriculum begins with basic strategies using AVID methodologies in AVID I and proceeds to more complexity by AVID IV. Each level is designed to build time management skills, organizational skills, test taking skills, and strategies for success skills as the student proceeds through the academic elective. Students will take on increasing levels of responsibility in terms of leadership, community service, and self-directed learning. These concepts, along with field-based instruction and tutorial sessions, will give students an opportunity to choose higher education by choice not by chance. AVID seniors are required to take the full-year course to receive recognition at graduation.

Leadership

TEEN LEADERSHIP [3304]

Placement: 9-12 Credits: 0.5 PEIMS: N1290012 Prerequisite: None

Students will set personal goals, work on developing a positive self-concept, learn public speaking skills and examine principles and their importance in decision-making. They will develop time management and financial skills. Students will learn to take personal responsibility for their thoughts, attitudes and actions and to set life goals based on a vision for the future.

Gifted and Talented

GIFTED AND TALENTED INTERDISCIPLINARY STUDIES/MENTOR SEMINAR (H) [9021]

GT INTERDISCIPLINARY STUDIES/MENTOR SEMINAR II (H) [9022]

GT INDEPENDENT STUDY MENTORSHIP III (H) [9023]

GT INDEPENDENT STUDY MENTORSHIP IV (H) [9024]

Placement: 9-12 Credits: 1 each PEIMS: N1290309, N1290313, N1290317, N1290318 Prerequisite: Placement in

G/T program and completion of previous level course

These courses offer a nontraditional learning experience to those students who have the ability to create innovative products or performances.

Students will develop a product proposal, compile a portfolio, conduct in-depth research, be matched with a mentor from the business or professional community, and prepare for a public presentation of their product or performance.

Technology Applications

FUNDAMENTALS IN COMPUTERSCIENCE [3132]

COMPUTER SCIENCE I [7400]

COMPUTER SCIENCE II [3130]

COMPUTER SCIENCE II [3131]

Placement: 9-12 Credits: 1 each PEIMS: 03580140, 03580200, 03580300, 03580350

Students will study beginning concepts associated with programming using Java. Java will be used to develop effective coding of methods and to develop programming skills associated with objects. Emphasis will be placed on Object Oriented programming for problem solving using mathematical algorithms. Skills will become increasingly sophisticated with each consecutive course.

Prerequisite: Gr 6-8 Tech Application proficiency

Prerequisite: Algebra I

Prerequisite: Algebra I; Comp Science I or Fund of Comp Science

Prerequisite: Comp Science II, AP Comp Science, or IB Comp Sci

COMPUTER SCIENCE P-AP [7722]

Placement: 10-12 Credits: 1 PEIMS: 03580200 Prerequisites: Algebra I

This course is designed for students who are interested in pursuing upper level computer science. Students will study beginning concepts associated with programming using the C++ language. C++ will be used to develop effective coding of functions and to develop programming skills associated with data structures. Emphasis will be placed on structured programming for problem solving using mathematical algorithms.

AP COMPUTER SCIENCE A [7408]

Placement: 11-12 Credits: 2 PEIMS: A3580110, A3580120 Prerequisite: Recommend Computer Science I or Algebra II

Note: This course qualifies as 1 **mathematics** credit and as 1 **LOTE** credit

Students will study advanced computer science topics and advanced programming techniques using Java. Topics covered will include arrays, strings, linked lists, binary search, bubble sort and recursion. Students will develop larger programs with increased emphasis on design, style and documentation. Topics that will be covered include non-quadratic sorts, stacks, queues, binary trees using dynamic pointers as their major data structures. In addition, an introduction to classes and object oriented programming will be included. This course is designed to prepare students to take the Advanced Placement Computer Science "A" test in the spring.

DIGITAL ART AND ANIMATION [3129]

Placement: 9-12 Credits: 1 PEIMS: 03580500 Prerequisite: Gr 6-8 Tech Apps proficiency; Recommend Art I

Note: This course qualifies as a **Fine Arts** Credit.

Digital Arts and Animation is an introductory course in design, typography, and imaging techniques. The course includes topics such as digital composition, color, imaging, editing, and animation. Understanding design elements is essential in the creation of a successful product in this course. The student will use the computer's set of tools to produce and edit digital designs as well as to incorporate design principles when capturing digital images with the scanner and camera. Students will work with color, resolution, and halftones as well as other image enhancing strategies including outlining, cropping digital manipulation, color correction, masking, and the use of channels, paths, background, and layers. Animation, both 2-D and 3-D, will be introduced in this course.

DIGITAL VIDEO AND AUDIO DESIGN [3127]

Placement: 11-12 Credits: 1 PEIMS: 03580700 Prerequisite: None

Video production is probably the most universally known of all visual media and is an integral component of many technology applications. The process of editing creates a special mood, tempo, and pace to enhance the subject matter. Video production is not only instructional and analytical, but also artistic. Students will learn video basics as well as participate in pre-production, production, and post production stages of video creation, distribution, and evaluation of the product. Students enrolled in this course will be computer literate and have experience with the basic product. Students enrolled in this course will be computer literate and have experience with the basic electronic productivity tools. A prerequisite for this course is grades 6-8 Technology Applications TEKS.

WEB DESIGN [3128]

Placement: 9-12 Credits: 1 PEIMS: 03580820 Prerequisite: None

The World Wide Web (WWW) is the fastest growing part of the Internet. The popularity of the WWW is due largely to the ease with which users can not only access and navigate the web but also create pages of information to share with others. Resources abound on the web; however, efficient strategies to find the needed information must be learned. This course focuses on scripting, developing searching strategies, publishing skills, and serving information on a web server. Ultimately, students, within an ethical framework, will be the webmasters for the class, school, or district, participating in a real global community of learners and collaborators. Students enrolled in this course will be computer literate and have the basic electronic productivity tools. A prerequisite for this course is grades 6-8 Technology Applications Knowledge and Skills.

COMPUTER SCIENCE - 1301 [3133]

Placement: 10-12 Credits: 0.5 PEIMS: 03580200 Prerequisite: Algebra I

Overview of computer systems—hardware, operating systems, and microcomputer application software, including the Internet, word processing, spreadsheets, presentation graphics, and databases. Current issues such as the effect of computers on society, and the history and use of computers in business, educational, and other modern settings are also studied.

College Credits: COSC 1301 3hrs

Technology Applications Continued

COMPUTER SCIENCE - 1315 [3134]

Placement: 10-12 Credits: 0.5 PEIMS: 03580200 College Credits: COSC 1315 Prerequisites: None

Introduction to computer programming for solving a variety of problems. Emphasis on the fundamentals of design, development, testing, implementation, and documentation of computer programs. Includes problem solving with structured techniques and algorithms using pseudo code and/or graphical representations.

COMPUTER SCIENCE II –PROGRAMMING FUNDAMENTALS [3138] College Credits: COSC 1336 3hrs *STEM Academy

Placement: 11-12 Credits: 0.5 PEIMS: 03580300 Prerequisite: Algebra I; Computer Science I-1315 [3134]

The course introduces the fundamental concepts of structured programming and provides a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging software.

COMPUTER SCIENCE II –PROGRAMMING FUNDAMENTALS [3139] College Credits: COSC 1337 3hrs *STEM Academy

Placement: 11-12 Credits: 0.5 PEIMS: 03580300 Prerequisite: Algebra I; Computer Science II [3138]

The course focuses on the object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software.

COMPUTER SCIENCE III –COMPUTER ORGANIZATION [3140] College Credits: COSC 2325 3hrs *STEM Academy

Placement: 11-12 Credits: 0.5 PEIMS: 03580350 Prerequisite: Computer Science II [3138]

The organization of computer systems is introduced using assembly language. Topics include basic concepts of computer architecture and organization memory hierarchy, data types, computer arithmetic, control structures, interrupt handling, instruction sets, performance metrics, and the mechanics of testing and debugging computer systems. Embedded systems and device interfacing are introduced.

COMPUTER SCIENCE III - PROGRAMMING FUNDAMENTALS III [3141] College Credits: COSC 2336 3hrs

Placement: 11-12 Credits: 0.5 PEIMS: 03580350 Prerequisite: Computer Science III [3140]

Further applications of programming techniques, introducing the fundamental concepts of data structures and algorithms. Topics include data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), searching, sorting, recursion, and algorithmic analysis. Advanced programming techniques including file access methods, data structures, modular programming, program testing and documentation. Programs will be implemented in an appropriate object oriented language.

DIGITAL FORENSICS [3136] *STEM Academy

Placement: 9-12 Credits: 0.5 PEIMS: 03580360 Prerequisite: Gr 6-8 Tech Application proficiency

This course will foster students' creativity and innovation by presenting opportunities to investigate simulations and case studies of crimes, reconstructing computer security incidents, troubleshooting operational problems, and recovering from accidental system damage. Students will collaborate to develop forensic techniques to assist with computer security incident response. Students will learn methods to identify, collect, examine, and analyze data while preserving the integrity of the information and maintaining a strict chain of custody for data. Students will solve problems as they study the application of science to the law. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computing and networking systems that transmit or store electronic data.

MOBILE APPLICATION DEVELOPMENT [3137] *STEM Academy

Placement: 9-12 Credits: 0.5 PEIMS: 03580390 Prerequisite: Algebra I and Gr 6-8 Tech Application proficiency

This course fosters students' creativity and innovation by presenting opportunities to design, implement, and deliver meaningful projects using mobile computing devices. Students will collaborate with one another, their instructor, and various electronic communities to solve problems presented throughout the course. Through data analysis students will identify task requirements, plan search strategies, and use software development concepts to access, analyze, and evaluate information needed to program mobile devices.

PRINCIPLES OF APPLIED ENGINEERING [6569]STEM Academy

Placement: 9-12 Credits: 1 PEIMS: 13036200 Prerequisites: None

This course provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

Killeen High School

International Baccalaureate (IB)

Notes: Under normal circumstances, selected students outside the Killeen High School attendance zone will be awarded transfer to KHS. Students taking these courses require admission to the IB Diploma Programme. Students not enrolled in the IB Diploma Programme require permission from the IB Coordinator to take an IB course.

GROUP 1

IB LANGUAGE STUDIES A: LITERATURE HL - ENGLISH III [3212]

Placement: 11 Credits: 1 PEIMS: I3220800 Prerequisites: English II P-AP

This course is the 11th grade component of a required two-year higher level (HL), Language A1, IB diploma course that strives to elevate the students' global awareness and enhance their problem-solving skills to develop personal and political ethics. The major concepts in this course will include, but not be limited to, instruction in the backgrounds and the critical analysis of major works representing various genres, authors, periods, and cultures. Composition instruction will emphasize all forms of expository writing and higher level thinking skills. The course will also integrate the content of AP English Language and Composition and is identified as meeting the needs of TAG junior humanities students.

IB LANGUAGE STUDIES A: LITERATURE HL - ENGLISH IV [3213]

Placement: 12 Credits: 1 PEIMS: I3220800 Prerequisites: IB English III HL

This course is the 12th grade component of a required, two-year Higher Level (HL), Language A1, IB diploma course that strives to elevate the students' global awareness and enhance their problem-solving skills to develop personal and political ethics. The major concepts in this course will include, but not be limited to, instruction in the backgrounds and the critical analysis of major works representing various genres, authors, periods, and cultures. Composition instruction will emphasize all forms of expository writing and higher level thinking skills. The course will also integrate the content of AP English Literature and Composition and is identified as meeting the needs of TAG senior humanities students.

GROUP 2

IB FRENCH I, AB INITIO [4254]

Placement: 11 Credits: 1 PEIMS: 03410100 Prerequisites: None

The course is offered only to IB Diploma Programme candidates who have no previous instruction or course credit in the French Language. Level I introduces the beginning IB foreign language (Group 2) student to the basic reading, speaking, and writing skills and concepts necessary for communication in daily situations. The history, culture, and literature of the French Language will also be studied.

IB FRENCH II, AB INITIO [4257]

Placement: 12 Credits: 1 PEIMS: 03410200 Prerequisites: IB French I AB INITIO

This course is offered only to IB Diploma Programme candidates who have had no previous instruction or course credit in the French Language. Level II reviews the basic structures learned in Level I and continues with additional structures, expression, and vocabulary. Conversation skills will be emphasized and writing skills will be developed to meet the IB Examination requirements in French, AB INITIO.

IB LOTE IV FRENCH [3215, 3264]

Placement: 11-12 Credits: 1 each PEIMS: I3410400 Prerequisites: French III P-AP

The IB French Language course is an intensive combination of practice and assessment that provides varied content in line with the IB philosophy of internationalism, integration of disciplines, and bilingualism. It is designed to challenge the students to grow intellectually, socially, and emotionally to better understand the world and themselves. The development of skills of text handling, written and oral production, and listening are embedded in the themes of each session. Its purpose is to prepare the students to express themselves correctly in French, their second language, and to understand better the world through an extensive exposure to other cultures. The course will also integrate the content of AP French Language.

IB GERMAN I, AB INITIO [4258]

Placement: 11 Credits: 1 PEIMS: 03420100 Prerequisites: None

This course is offered only to IB Diploma Programme candidates who have no previous instruction or course credit in the German Language. Level I introduces the beginning IB foreign language (Group 2) student to the basic reading, speaking, and writing skills and concepts necessary for communication in daily situations. The history, culture, and literature of the German Language will also be studied.

IB GERMAN II, AB INITIO [4259]

Placement: 12 Credits: 1 PEIMS: 03420200 Prerequisites: IB German I AB INITIO

The IB German Language II course is offered only to IB Diploma Programme candidates who have no previous instruction or course credit in the German Language. Level II reviews the basic structures learned in Level I and continues with additional structures, expression, and vocabulary. Conversation skills will be emphasized and writing skills will be developed to meet the IB Examination in German, AB INITIO.

Killeen High School Continued

IB LOTE GERMAN IV [3222, 3265]

Placement: 11-12 Credits: 1 each PEIMS: I3420400 Prerequisites: German III P-AP

The IB German Language course is an intensive combination of practice and assessment that provides varied content in line with the IB philosophy of internationalism, integration of disciplines, and bilingualism. It is designed to challenge the students to grow intellectually, socially, and emotionally to better understand the world and themselves. The development of skills of text handling, written and oral production, and listening are imbedded in the themes of each session. Its purpose is to prepare the students to express themselves correctly in German. The course will also integrate the content of AP German Language.

IB SPANISH I, AB INITIO [2513]

Placement: 11 Credits: 1 PEIMS: 03440100 Prerequisites: None

The course is offered only to IB Diploma Programme, candidates who have had no previous instruction or course credit in the Spanish Language. Level I introduces the beginning IB foreign language (Group 2) student to the basic reading, speaking, and writing skills and concepts necessary for communication in daily situations. The history, culture and literature of the Spanish Language will also be studied.

Killeen High School Continued

IB SPANISH II, AB INITIO [2514]

Placement: 12 Credits: 1 PEIMS: 03440200 Prerequisites: IB Spanish I AB INITIO

The course is offered only to IB Diploma Programme candidates who have had no previous instruction or course credit in the Spanish Language. Level II reviews the basic structures learned in Level I and continues with additional structures, expression, and vocabulary. Conversation skills will be emphasized and writing skills will be developed to meet the IB Examination requirements in Spanish, AB INITIO.

IB LOTE SPANISH IV [3205, 3260]

Placement: 11-12 Credits: 1 each PEIMS: I3440400 Prerequisites: Spanish III P-AP

The IB Spanish Language course is an intensive combination of practice and assessment that provides varied content in line with the IB philosophy of internationalism, integration of disciplines, and bilingualism. It is designed to challenge the students to grow intellectually, socially, and emotionally to better understand the world and themselves. The development of skills of text handling, written and oral production, and listening are embedded in the themes of each session. Its purpose is to prepare the students to express themselves correctly in Spanish, their second language, and to understand better the world through an extensive exposure to other cultures. The course will also integrate the content of AP Spanish Language.

GROUP 3

IB HISTORY: AMERICAS I HL [3214]

Placement: 11 Credits: 1 PEIMS: I3301300 Prerequisites: None

Note: This course meets the graduation requirements for US History.

Note: US History [5303], US History PAP [5336], US History DC [5351] and AP US History [5311] are duplicate credits.

This course is a required, two-year High Level (HL) course for eleventh and twelfth grade IB Diploma students. The eleventh grade students will focus on the histories of the United States, Canada, and Latin America. The course also focuses on the social, political, and economic relationships between the United States, Canada, and Latin America. The eleventh grade course is identified as meeting the needs of TAG junior humanities students.

IB HISTORY: AMERICAS II HL [3238]

Placement: 12 Credits: 1 PEIMS: I3301300 Prerequisites: IB History: Americas I HL

The twelfth grade component of the two-year course is an in-depth study that focuses on the significant social, political, and economic events and relationships inherent in 20th Century Global topics.

IB INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY SL [3240]

Placement: 11-12 Credits: 1 PEIMS: I3580400 Prerequisites: None

This course is a one-year, stand-alone Standard Level (SL) IB Diploma Programme course in ITGS. The course will critically examine the social and ethical issues of information technology (IT) systems and developments at the local, national, and global level; the global impact of IT developments on hardware, applications, networks, and communications systems; and the advantages and disadvantages of the access and use of digitized information.

Killeen High School Continued

IB PSYCHOLOGY SL [3242]

Placement: 11-12 Credits: 1 PEIMS: I3304100 Prerequisites: None

This standard level (SL) IB Diploma Programme course in psychology will satisfy IB Diploma Program graduation requirements as a Group 3 elective. The course is a systematic study of behavior and experience. It uses both quantitative and qualitative methods and rigorous procedures to document research in the natural and social sciences that looks for improvement of the individual life, as well as an understanding of the social conditions that affect the individual. It studies the relationship between psychological processes and the human experience and addresses those complex issues so that students can develop a greater understanding of themselves and others. The course syllabus consists of the study of three perspectives (biological, cognitive, and learning), the investigation of research methodology, a simple experimental study, and an optional topic from one of the following seven areas: comparative psychology, cultural psychology, health psychology, lifespan psychology, psychodynamic psychology, social psychology, or the psychology of dysfunctional behavior.

GROUP 4

IB BIOLOGY I HL [3244, 3267]

Placement: 11 Credits: 1 each PEIMS: I3010202 Prerequisites: Recommend 2 years HS Lab Sciences

This course is a two-year Higher Level (HL) IB Biology Programme. The focus of the IB Biology Program is to: Assess the role humans play in the biosphere, develop the problem-solving skills necessary for well-informed citizens to make educated decisions about biological problems, develop an appreciation for life through the study of relationships between organisms, and provide a foundation of biological knowledge that can be successfully applied to post-secondary study of biology. An interdisciplinary science, Group 4, project will be introduced and completed during this course of study. The course will also integrate the content of Advanced Placement Biology and is identified as meeting the needs of TAG Science students.

IB BIOLOGY SL [3204, 3259]

Placement: 11-12 Credits: 1 each PEIMS: I3010201 Prerequisites: Recommend 2 years HS Lab Sciences

This is a Standard Level Biology course in the IB Diploma Programme. The focus of the IB Biology Program is to: Assess the role humans play in the biosphere, develop the problem-solving skills necessary for well-informed citizens to make educated decisions about biological problems, develop an appreciation for life through the study of relationships between organisms, and provide a foundation of biological knowledge that can be successfully applied to post-secondary study of biology. An interdisciplinary science, Group 4, project will be introduced and completed during this course of study. Core elements studied in SL and HL Biology are the same. The difference between HL and SL is one of breadth and depth.

IB CHEMISTRY I HL [3245, 3268]

Placement: 11 Credits: 1 PEIMS: I3040003 Prerequisites: Recommend 2 years HS Lab Sciences

This course is a two-year, Higher Level (HL) IB Chemistry course. It consists of a subject-specific core of eleven, basic chemistry and chemistry-related subjects and three additional investigation and/or concentration areas in higher, physical chemistry, human biochemistry, and fuels and energy. Moreover, it will include the introduction and completion of an interdisciplinary science, Group 4 project. The course will also integrate the content of Advanced Placement Chemistry and is identified as meeting the needs of TAG science students.

IB CHEMISTRY SL [3207, 3261]

Placement: 11-12 Credits: 1 each PEIMS: I3040002 Prerequisites: Recommend 2 years HS Lab Sciences

This is an IB Standard Level Chemistry course. It consists of a subject-specific core of eleven, basic chemistry and chemistry-related subjects and two additional investigation and/or concentration areas in higher, physical chemistry, human biochemistry and fuels and energy. Moreover, it will include the introduction and completion of an interdisciplinary science, Group 4 project. Core elements studied in SL and HL Chemistry are the same. The difference between HL and SL is one of breadth and depth.

IB PHYSICS SL [3224, 3266]

Placement: 11-12 Credits: 1 each PEIMS: I3050002 Prerequisites: Recommend 2 years HS Lab Sciences

This is a one-year IB Standard Level Physics course. It consists of a subject-specific core of eight, basic physics and physics-related subjects and two additional investigation and/or concentration areas in physics. Moreover, it will include the introduction and completion of an interdisciplinary science, Group 4 project. Core elements studied in SL and HL Physics are the same but the additional topics are slightly different. The difference between HL and SL is one of breadth and depth.

IB ENVIRONMENTAL SYSTEMS SL [3252, 3269]

Placement: 11-12 Credits: 1 each PEIMS: I3020000 Prerequisite: Recommend 1 year HS Science

This is a standard level course in the IB Diploma Programme. As a trans-disciplinary subject, environmental systems and societies is designed to combine the techniques and knowledge associated with group 4 (the experimental sciences) with those associated with group 3 (individuals and societies). The prime intent of this course is to provide students with a coherent perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. Student will be expected to evaluate the scientific, ethical and socio-political aspects of issues presented in class.

GROUP 5

IB MATHEMATICAL STUDIES SL [3210, 3263]

Placement: 11-12 Credits: 1 each PEIMS: I3100100 Prerequisites: Recommend Algebra II and Geometry

IB Mathematical Studies Standard Level (SL) is an integrated mathematics course consisting of core studies, a course research project, and optional topics. The core studies cover topics in the number systems, equations and inequalities, quadratics, coordinate geometry, set theory, logic, vectors, 3-D trigonometry, functions and relations, sequence and series, solution of triangles, probability, statistics, trigonometric functions, logarithmic functions, exponential functions, finance and linear programming. The option presented in this course will be further work in probability and statistics. This course is designed for the student who will not take higher level mathematics (calculus) or a calculus-based science in college or require higher level mathematics in the workplace. This is identified as meeting the needs of TAG math students.

IB MATHEMATICS SL [3209, 3262]

Placement: 12 Credits: 1 each PEIMS: I3100200 Prerequisites: Recommend Algebra II and Geometry

IB SL Mathematics is an integrated mathematics, stand-alone, SL, diploma course, a Group 6 SL elective diploma course, or the first year component of a two-year, Higher Level IB Mathematics diploma course consisting of core studies, a course portfolio, and optional topics. The core studies cover topics in number systems, sequence and series, logarithms, the binomial theorem, graphs, quadratic functions and equations, functions and relations, transformation of graphs, solution of triangles, radian measure, the unit circle, vectors, statistics, probability, and calculus to include: rates of change, differentiation, applications of differentiation, and integration. The option presented in this course will be further work in calculus. This course will also integrate elements of AP Calculus AB and is identified as meeting the needs of TAG math students.

IB COMPUTER SCIENCE I HL [3247]

Placement: 11 Credits: 1 PEIMS: I3580310, Prerequisites: Recommend Computer Science I, Algebra II

The IB Computer Science I is the first-year component of a two-year Higher Level IB Computer Science course. The course is a continuation of the concepts started in the AP-computer science course, but covers those concepts in greater depth and at a faster pace. Topics covered include: managing resources, coding proficiency, complex data structure, and software system life cycle. A portfolio or individual programme dossier is required. The course will also integrate the content of AP Computer Science A.

IB COMPUTER SCIENCE II HL [3217]

Placement: 12 Credits: 1 PEIMS: I3580320 Prerequisites: IB Computer Science I HL

IB Computer Science II, Higher Level (HL) is the 12th grade component of a two-year Higher Level, IB diploma course. It follows the first year IB Computer Science I course and covers additional topics of advanced coding, research, and a programming project. Work on a portfolio continues and the course will integrate the content of AP Computer Science AB.

Killeen High School Continued

IB COMPUTER SCIENCE SL [3216, 3234]

Placement: 11-12 Credits: 1 each PEIMS: I3580200 Prerequisites: Recommend Computer Science I, Algebra II
This is a two-year Standard Level Computer Science course. The course is a continuation of the concepts started in the Pre-AP computer science course, but covers those concepts in greater depth and a faster pace. Topics covered include: managing resources, coding proficiency, complex data structure, and software system life cycle. A portfolio or individual programme dossier is required. Core elements studied in SL and HL Computer Science are the same. The difference between HL and SL is one of breadth and depth.

GROUP 6

IB MUSIC I HL [3248]

Placement: 11 Credits: 1 PEIMS: I3250300 Prerequisites: Credit for any Music, Level II course
This course is the first year component of a two year, Higher Level (HL) IB Music diploma course. Students will develop skills in the identification of musical style and genres from all over the world. Extensive musical analysis and music theory will also be addressed. The course enables students to develop their knowledge, abilities, and understanding of music through performance and composition. This course relies heavily on performance ability.

MUSIC STUDIES, MUSIC THEORY I – IB MUSIC II HL [3227]

Placement: 12 Credits: 1 PEIMS: 03155400 Prerequisites: Recommend IB Music I HL
This course is the second year component of a two year Higher Level (HL) IB Music diploma course. Students will continue further development of skills in music perception. Even more music analysis and theory will be developed and honed. Course will include solo recitals and compositional techniques. The course continues to help students develop their knowledge, abilities, and understanding of music through performance and composition. This course relies heavily on performance ability.

IB MUSIC SL [3226]

Placement: 11-12 Credits: 1 PEIMS: I3250200 Prerequisites: Credit for any Music, Level II course
This course is a one-year standard level music diploma course. Students will develop skills in the identification of musical styles and genres from all over the world. Extensive musical analysis and music theory will also be addressed. The course enables students to develop their knowledge, abilities, and understanding of music through performance and composition. This course relies heavily on performance ability.

IB THEATRE ARTS I HL [3249]

Placement: 11 Credits: 1 PEIMS: I3750300 Prerequisites: Credit for any Theatre, Level III course
This course is the first year component of a two year Higher Level (HL) Theater Arts course, comprising four compulsory parts: Performance Skills, World Theatre Studies, Practical Play Analysis, and Theatre Production. Students will need to acquire the reflective skills and understanding of how parts work together as a whole.

THEATRE ARTS IV – IB THEATRE ARTS II HL [3228]

Placement: 12 Credits: 1 PEIMS: 03250400 Prerequisites: Credit for any Theatre, Level III course
This course is the second year of a Higher Level (HL) Theatre Arts course consisting of five compulsory parts: Performance Skills, World Theatre Studies, Practical Play Analysis, Theatre Production, and an Individual Project. The aims of the program in Theatre Arts are to help students understand the nature of the theatre, not only with their minds but with their sense, their bodies, and their emotions and the forms it takes in other cultures and societies of the world.

IB THEATER ARTS SL [3220]

Placement: 11-12 Credits: 1 PEIMS: I3750200 Prerequisites: Credit for any Theatre, Level III course
This course is a one-year Standard Level Theater course in the Diploma Programme. The course is comprised of four compulsory parts: Performance Skills, World Theatre Studies, Practical Play Analysis, and Theatre Production. Students will need to acquire the reflective skills and understanding of how parts work together as a whole.

IB VISUAL ARTS I HL [3250]

Placement: 11 Credits: 1 PEIMS: I3600100 Prerequisites: None
This course is the first-year component of a two-year, Higher Level (HL) IB Visual Arts diploma course. The course is designed to enable students to develop a strong knowledge and understanding of the elements of art and principles of design. Importance is placed on stimulating creativity by exploration of a variety of media, techniques and subjects or topics through studio activities. An appreciation of fine art, art history and cultural awareness is an intricate part of all studio activities. There are two options for Visual Arts. Both options require studio work and investigation workbooks. Option A focuses on Studio Work and Option B focuses on Investigation Workbooks. Studio work involves practical exploration and artistic production. Investigation work involves independent contextual, visual, and critical investigation and reflection, both visual and written. The course will also integrate elements of the Advanced Placement Art/general portfolio and/or Advanced Placement Art/drawing courses, as they will be taught together in the same classroom.

Killeen High School Continued

ART IV – IB VISUAL ARTS II HL [3218]

Placement: 12 Credits: 1 PEIMS: 03500400 Prerequisites: Art, Level III; Recommend IB Visual Arts

This course is the second-year component of a two-year IB Higher Level (HL) Visual Arts diploma course. The course is designed to continue their knowledge, understanding, creativity, and techniques through a second year of studio activities. The students will expand their concentration of works (research workbook) which interprets their experiences visually, emotionally, and aesthetically. There are two options for Visual Arts. Both options require studio work and investigation workbooks. Option A focuses on Studio Work and Option B focuses on Investigation Workbooks. Studio work involves practical exploration and artistic production. Investigation work involves independent contextual, visual, and critical investigation and reflection, both visual and written.

IB VISUAL ARTS SL [3219]

Placement: 11-12 Credits: 1 PEIMS: I3600200 Prerequisites: None

This course is a one-year Standard Level Visual Arts course in the Diploma Programme. The course is designed to enable students to develop a strong knowledge and understanding of the elements of art and principles of design. Importance is placed on stimulation creativity by exploration of a variety of media, techniques and subjects or topics through studio activities. An appreciation of fine art, art history and cultural awareness is an intricate part of all studio activities. There are two options for Visual arts. Both options require studio work and investigation workbooks. Option A focuses on Studio Work and Option B focuses on Investigation Workbooks. Studio work involves practical exploration and artistic production. Investigation work involves independent contextual, visual, and critical investigation and reflection, both visual and written.

IB FILM I HL [3255]

Placement: 11 Credits: 1 PEIMS: N1290321 Prerequisite: None

Note: This course does not count as a Fine Arts credit toward graduation requirements.

This course is the first year of a two-year program designed to meet the requirements of the IB Film syllabus. All students must commit to two years of Film class at KHS. Students will pursue a rigorous academic track studying the medium of Film from an artistic, historical, and technical standpoint. All students must complete the IB Film Exam at the end of the second year of the program.

INDEPENDENT STUDY IN ENGLISH 2 – IB FILM II HL [3258]

Placement: 12 Credits: 1 PEIMS: 03221810 Prerequisite: Recommend IB HL Film I

This course is the second year of a two-year program designed to meet the requirements of the IB Film syllabus. Students will continue a rigorous academic track studying the medium of Film from an artistic, historical, and technical standpoint. All students must complete the IB Film Exam at the end of the second year of the program.

IB FILM SL [3253]

Placement: 11 Credits: 1 PEIMS: N1290320 Prerequisite: None

Note: This course does not count as a Fine Arts credit toward graduation requirements.

This course is the first year of a two-year program designed to meet the requirements of the IB Film syllabus. All students must commit to two years of Film class at KHS. Students will pursue a rigorous academic track studying the medium of Film from an artistic, historical, and technical standpoint. All students must complete the IB Film Exam at the end of the second year of the program.

ADDITIONAL INTERNATIONAL BACCALAUREATE COURSES

INDEPENDENT STUDY IN ENGLISH – MYP DESIGN CYCLE [3200]

Placement: 9-10 Credits: 1 PEIMS: 03221800 Prerequisite: None

This one year course will concentrate on the essential skills and knowledge bases necessary for successful initiation and completion of the International Baccalaureate Diploma Program. It will introduce many course topics through the use of IB Theory of Knowledge (TOK) concepts, and the course will address concern and practice for college admission requirements.

KHS INTERNATIONAL ODYSSEY AMBASSADORS [3241]

Placement: 9-11 Credits: 1 PEIMS: 03380021 Prerequisites: Member of KHS IA, application and acceptance to Ambassador Program

This course involves a full program of instruction that immerses the students in the geography, language, history, literature, ecology, geology, and culture of a nation located in a unique geographical setting within a region of great importance to the United States and international community. The course culminates with a two-three week visit to the target country in the summer to put into practice skills developed throughout the course of the school year, engage in active classroom learning in a different environment, and participate in community service activities in the focus country. The students will attend three-four hour sessions each month until the summer departure whereby they receive additional travel information and instruction focused on the target country. One of these sessions will even be an overnight lock-in to focus on team building and travel simulation.

Killeen High School Continued

IB THEORY OF KNOWLEDGE [3256]

Placement: 11 Credits: 0.5 PEIMS: N1290322 Prerequisites: None

IB THEORY OF KNOWLEDGE [3257]

Placement: 12 Credits: 0.5 PEIMS: N1290322 Prerequisites: IB TOK [3256]

This course aims to integrate knowledge systems in such a way that the student recognizes and rationalizes connections between the disciplines in order to engage in considered, civilized discourse, be it written or oral. Such exchange will ultimately lead to a more harmonious global community, despite cultural differences. A student of TOK should emerge from these studies with a greater sensitivity to and appreciation of individual and societal abilities and responsibilities so that a sense of integrity will be well established before proceeding to university studies.

SOCIAL STUDIES COURSES SPECIFIC TO KHS

SPECIAL TOPICS IN SOCIAL STUDIES III - WWI [5470]

Placement: 11-12 Credits: 0.5 PEIMS: 03380032 Prerequisite: None

An examination of the origins of World War I; the combatants, strategies, tactics, and technological innovation. Europe and America's role in the war and the peace settlement. The primary focus places the 'Great War' in the context of European and World perspectives. Specific areas include political and diplomatic developments, new developments in weapons technology, economic aspects of the war, and the impact of the war on the culture and social order of the nations involved.

SPECIAL TOPICS IN SOCIAL STUDIES IV - WWII [5471]

Placement: 11-12 Credits: 0.5 PEIMS: 03380042 Prerequisite: None

An examination of the origins of World War II; the combatants, strategies, tactics, and technological innovation. Europe, the Pacific and America's role in the war and the consequences of the Yalta and Potsdam conference. The primary focus on places emphasis in the context of the European and World perspectives. Specific areas include political and diplomatic developments, new development in weapons technology, economic aspects of the war, and the impact of the war on culture and social order of the nations involved.

C. E. Ellison High School

Leadership Academy

Note: Under normal circumstances, selected students outside the Ellison attendance zone will be awarded transfer to Ellison. Transportation will be the parent's/guardian's responsibility.

Additional information about entry requirements is available through the guidance center.

The Leadership Academy is an association of high-performing students who strive to combine their individual talents to improve themselves, their school, and the community. Members learn by doing, attending required monthly leadership seminars and Academy committee meetings, working with a mentor in the community to learn about a profession, completing an independent project, and contributing community service. Members are required to take the Principals of Leadership, complete 50 hours of community service each year, complete a senior leadership project, and complete a senior internship to graduate from the Academy.

LEADERSHIP-PRINCIPLES OF GOVERNMENT & PUBLIC ADMINISTRATION [6106]

Placement: 9-12 Credits: 1 PEIMS: 13018200 Prerequisite: Acceptance to Ellison Leadership Academy

All students accepted into the Ellison Leadership Academy will take this course. This course introduces students to foundations of governmental functions and career opportunities within the United States. Students will examine governmental documents such as the United States Constitution and the Bill of Rights. This course also introduces students to concepts of leadership relative to themselves and the world. After successful completion of this course students select the three courses in group 1 or the three courses in group 2.

C.E. Ellison High School Continued

Group 1

LEADERSHIP-POLITICAL SCIENCE I [6107]

Placement: 11-12 Credits: 1 PEIMS: 13018300 Prerequisite: Recommend Leadership Prin of Gov't & Public Ad.
This course will familiarize students with political theory and leadership theory through the study of governments; public policies; and political processes, systems and behavior.

LEADERSHIP-POLITICAL SCIENCE II [6108] AC

Placement: 12 Credits: 1 PEIMS: 13018400 Prerequisite: Recommend Leadership Prin of Gov't & Public Ad. or
Leadership Political Science I

This course builds on the learning in year one. This course uses a variety of methodological approaches to examine leadership in the process, systems, and political dynamics of the United States and other nations. Students conduct in-depth research in preparation for Senior Symposium.

Group 2

PROJECT BASED RESEARCH-LEADERSHIP [6318]

Placement: 10-12 Credits: 1 PEIMS: 12701500 Prerequisite: Leadership Principles of Gov't & Public Ad.

This course provides opportunities for advanced students to plan, organize, produce, perform, and evaluate a project that enables them to develop advanced leadership skills in communication, critical thinking, and problem solving. Students will evaluate contemporary and historical leadership concepts and theories.

LEADERSHIP-SPECIAL TOPICS IN SOCIAL STUDIES [5460]

Placement: 10-12 Credits: 1 PEIMS: 03380032 - 03380042 Prerequisite: Recommend Ind. Study in Speech-Principles
of Leadership

Students are provided the opportunity to develop a greater understanding of self, others, and the world through the study of historic, political, economic, geographic, multicultural, and social forces that have shaped their lives and the world in which they live.

LEADERSHIP-SOCIAL STUDIES ADVANCED STUDIES [5461]

Placement: 11-12 Credits: 1 PEIMS: 03380001 Prerequisite: Recommend Leadership-Special Topics in Social
Studies

Students conduct in-depth research in preparation for Senior Symposium.

Early College High School

PATH COLLEGE CAREER I – IV [6130, 6131, 6132, 6133] ECHS only

Placement: 9-12 Credits: 1 each PEIMS: N1290051, N1290052, N1290053, N1290054 Prerequisite: Enrollment in Early College High School

These courses advance intellectual curiosity, conscientiousness, dependability, emotional stability, and perseverance through tasks that foster deeper levels of thinking and reasoning in the four core content areas. Path courses focus on developing the habits and skills that are expected in college study and the workforce.

Early College HS Courses taken at CTC

Course	State ID	CTC Course	Hrs	Course	State ID	CTC Course	Hrs
Independent Study in English – Philosophy [1339]	03221800	PHIL 1301	3	Fundamentals of Comp Sci [3135]	03580140	BCIS 1305	3
SS Advanced Studies- Anthropology [5465]	03380001	ANTH 2351	3	Theatre Arts I [2405]	03250100	DRAM 1310/2336	6
Special Topics in SS-Psychology [5466]	03380002	PSYC 2314	3	Theatre Arts II [2406]	03250200	DRAM 1310/2336	6
Special Topics in SSII- Government [5472]	03380022	GOVT 2306	3	Art 1, Art Appreciation [1663]	03500110	ART 1303	6
Computer Science I-1301 [3133]	03580200	COSC 1301	3	Music Appreciation [2407]	03155600	MUSI 1301/1306	6
Computer Science I-1315 [3134]	03580200	COSC 1315	3	Foundations of Personal Fitness [2813]	PES00052	Multiple Options	1
				Physical Education [2814]	PES00008	Multiple Options	1

Additional Early College HS Courses

Course	State ID	Cr	Course	State ID	Cr	Course	State ID	Cr
English			Languages other than English			AVID/Teen Leadership		
English I P-AP [1143]	03220100	1	French I [4200]	03410100	1	AVID I [1011]	N1290001	1
English II P-AP [1161]	03220200	1	German I [4204]	03420100	1	AVID II [1022]	N1290002	1
Comm App DC [6322]	03241400	0.5	Spanish I [4213]	03440100	1	AVID III [1023]	N1290030	1
English III DC [1196]	03220300	1	Latin I [4208]	03430100	1	AVID IV [1024]	N1290033	1
English IV DC [1190]	03220400	1	French II [4201]	03410200	1	Teen Leadership [3304]	N1290012	0.5
Mathematics						Technology Applications		
Algebra I P-AP [3382]	03100500	1	German II [4205]	03420200	1	Web Design [3128]	03580820	1
Geometry P-AP [3394]	03100700	1	Spanish II [4214]	03440200	1			
Algebra II P-AP [3391]	03100600	1	Latin II [4209]	03430200	1			
Precal P-AP [3401]	03101100	1	Germ III P-AP [4228]	03420300	1			
Ind Study Math-Pre-Cal DC [3562]	03102500	0.5	Span III P-AP [4230]	03440300	1			
Ind Study Math II-Calc I DC [3577]	03102501	0.5	AP Spanish IV [4221]	A3440100	1			
Ind Study Math II-Calc II DC [3578]	03102501	0.5	AP Spanish Lit V [4395]	A3440200	1			
Ind Study Math-Col Alg DC [3561]	03102500	0.5	Social Studies					
Science			W Geog P-AP [5322]	03320100	1			
Biology P-AP [4723]	03010200	1	W History P-AP [5327]	03340400	1			
Chemistry P-AP [4731]	03040000	1	Eco Free Ent D [5342]	03310300	0.5			
Physics P-AP [4732]	03050000	1	US History DC [5351]	03340100	1			
AP Physics [4833]	A3050003	1	Psychology DC [5455]	03350100	0.5			
SRD II-Biology DC [4831]	13037210	1	Sociology DC [5456]	03370100	0.5			
SRD II-Biology DC [4837]	13037210	1						

Pathways Academic Campus

The campus will offer various schedule and course options with appropriate academic and support services to enable students to stay in school, or re-enter school, and pursue personalized educational goals. Students will work at a self-paced rate while pursuing a high school diploma. Students will be assigned an academic schedule and will also be encouraged to include a career assignment. As each academic course is completed, the student will be reassigned to another course until all courses required for graduation are mastered and completed. Students, who are 16 to 20 years old, may apply through their campus registrar during the school year for entry into Pathways Academic Campus. Exceptions may be made for 16 year old students if the following criteria are met:

- will become 16 years of age during the current schoolyear
- behind on credits
- acceptable discipline record from sending campus
- extenuating circumstances exist

Pathways Academic Campus is both open entry and open exit. Graduates will earn a high school diploma. The diploma will be an Ellison, Harker Heights, Killeen, or Shoemaker High School diploma. Graduates will participate in their respective campus (EHS, HHHS, KHS, or SHS) graduation ceremony. Pregnant students have the option to attend Pathways Academic Campus. Students wishing to enroll in the campus must provide a medical statement of the pregnancy to their campus registrar in addition to completing the standard enrollment process. All students must submit their application through their respective home campus before being accepted at Pathways Academic Campus.

Pathways Academic Campus (PAC) Course Offerings

Note: Students at Pathways are eligible to take any CTE course that fits with their schedule. Any Career and Technical Education course in CTE may be made available upon special application to the Principal of Pathways and the Chief CTE Officer.

English

English I [1102]	03220100	1
English II [1103]	03220200	1
English III [1104]	03220300	1
#English IV [1105]	03220400	1
#Cr Writing [1329]	03221200	1
Read I [1124]	03270700	1
Read II [1127]	03270800	1
Read III [1129]	03270900	0.5

Mathematics

Algebra I [3350]	03100500	1
Geometry [3353]	03100700	1
Algebra II [3352]	03100600	1
Math Models [3355]	03102400	1
Pre-Cal [3354]	03101100	1
Statistics [3574]	03102530	1
Statistics [3559]	03102501	0.5
Trigonometry [3560]	03102501	0.5
AQR [3568]	03102510	1
Strategic Lrn HS Math [3360]	N1110030	1

Science

Biology [4700]	03010200	1
IPC [4707]	03060201	1
Chemistry [4703]	03040000	1
Physics [4704]	03050000	1
Environmental Science [4701]	03020000	1
Earth & Space Science [4720]	03060200	1
Astronomy [4706]	03060100	1
Aquatic Science [4702]	03030000	1

Health and Physical Education

Health [2501]	03810100	0.5
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PE

Foundations [2810]	PES00052	1
PE Aerobic Act [2811]	PES00054	1
PE Ind/Team Sports [2812]	PES00055	1

Speech

Prof Communications [7526]	13009900	1
#Communication App [6307]	03241400	1

Fine Arts

Art I [1610]	03500100	1
Art II, Drawing I [1620]	03500500	1
Art III, Drawing II [1630]	03501300	1
Art IV, Drawing III [1640]	03502300	1
Theater I [2300]	03250100	1
Theater II [2301]	03250200	1
Theater III [2302]	03250300	1
Theater IV [2303]	03250400	1
Theater Prod I [2320]	03250700	1
Theater Prod II [2321]	03250800	1
Theater Prod III [2322]	03250900	1
Theater Prod IV [2323]	03251000	1
Tech Theater [2340]	03250500	1

Social Studies

World Geography [5301]	03320100	1
World History [5304]	03340400	1
US History [5303]	03340100	1
US Government [5302]	03330100	0.5
Econ Free Enterprise [5300]	03310300	0.5

Languages Other Than English

Spanish I [4213]	03440100	1
Spanish II [4214]	03440200	1

Career & Technical Education

Interior Design I [6523]	13004300	1
Prin of Arts A/V [6014]	13008200	1
Child Development [6118]	13024700	1
Lftm Nut & Wellness [7602]	13024500	0.5
Interpersonal Studies [7599]	13024400	0.5
Bank & Finance [7980]	13016300	0.5
Business Law [6183]	13011700	1
Prin Ed Training [7982]	13014200	1
Fashion Design [7513]	13009300	1
Interior Design II [6158]	13004400	2
Digital Media [7576]	13027800	1
Global Business [6184]	13011800	0.5
Prin of Info Tech [7610]	13027200	1
Prin of Human Ser [6012]	13024200	1
Prin of Bus Mrkt & Fin [7519]	13011200	1
Dollars & Sense [8561]	13024300	0.5

Electives

Math Support [3357]	84100100	1
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Dual Credit

There is an application and an approval process for taking any dual credit course. See your high school counselor before registering to ensure you will receive credit for high school graduation.

Texas Bioscience Institute

This two-year course sequence is for students entering the TBI program.

Year	First Semester	State ID	TBI Course	Hrs	Second Semester	State ID	TBI Course	Hrs
1	English III [1104IA]	03220300	ENGL 1301	3	English III [1104IB]	03220300	ENGL 1302	3
2	Ind St-Alg [3354IA]	03102500	MATH 1314	3	Ind St-PCAL [3354IB]	03102500	MATH 2412	4
3	Biology [7787IA]	IHE11200	BIOL 1406	4	Biology [7787IB]	IHE11200	BIOL 1407	4
4	US History [5303IA]	03340100	*HIST 1301	3	US History [5303IB]	03340100	*HIST 1302	3

Year	First Semester	State ID	TBI Course	Hrs	Second Semester	State ID	TBI Course	Hrs
1	English IV [1105IA]	03220400	ENGL 2322	3	English IV [1105IB]	03220400	ENGL 2323	3
2	Chemistry I [7726IA]	13037200	CHEM 1411	4	Chemistry II [7726IB]	13037200	CHEM 1412	4
3	Government [5347I]	03330100	*GOVT 2305	3	Economics [5342I]	03310300	*ECON 2301	3
**4	2 nd year science			4	2 nd year science			4
**4	Ind Study-CALC [3520IA]	03102501	MATH 2413	4	**Ind Study-STAT [3520IB]	03102501	MATH 1442	4

*Courses taught by CTC but taken at TBI. This list is subject to change.

**The 4th course consist of two semesters of the following courses:

2nd year science: Genetics (4829I), Medical Microbiology (6054I), Biotechnology (6166I), and Anatomy & Physiology (7652I)
 MATH 2413, MATH 1442, and/or MATH 2414 (Calculus II (3358IB))

Dual Credit Offerings on Campuses

These dual credit courses are taken at the regular High School campuses. [Early College High School](#) has a separate section listing courses taken at that campus.

Course	State ID	CTC Course	Hrs	Course	State ID	CTC Course	Hrs
English III [1196]	03220300	ENGL 1301/1302	6	Sci Research & Des2-Bio [4831]	IHE11200	BIOL 1406/1407	8
English IV [1190]	03220400	ENGL 2322/2323	6	Sci Research & Des-Chem [4832]	13037200	CHEM 1411/1412	8
Communication Application [6322]	03241400	SPCH 1315	3	Art I, Art Appreciation [1338]	03500110	HUMA 1315	3
Ind Study Math-College Alg [3561]	03102500	MATH 1414		Anatomy & Physiology [7665]	13020600	BIOL 2401/2402	8
Ind Study Math-Pre-Cal [3562]	03102500	MATH 2412	3	US History [5351]	03340100	HIST 1301/1302	6
Ind Study Math-Elem Stat [3570]	03102502	MATH 1342	4	Psychology [5455]	03350100	PSYC 2301	3
Ind Study Math II-Calc I [3577]	03102501	MATH 2413	4	Sociology [5456]	03370100	SOCI 1301	3
Ind Study Math II-Calc II [3578]	03102501	MATH 2414	4	Economics of Free Ent [5342]	03310300	ECON 2301	3
Ind Study Math III-Calc III [3579]	03102502	MATH 2415	4	Government [5347]	03330100	GOVT 2305	3
Ind Study Math III-Linear Algebra [3580]	03102502	MATH 2318	3	Special Topics-SS1 [5463]	03380002	GOVT 2306	3

Dual Credit Continued

STEM Academy Only

The following courses are only available at the STEM Academy.

Course	State ID	CTC Course	Hrs	Course	State ID	CTC Course	Hrs
ISM III-Differential Equa [3582]	03102502	MATH 2320	3	SRD I – Intro to Engineer	13037200	ENGR 1201	2
SRD I – Engineer Mech - Statics [6585]	13037200	ENGR 2301	3	SRD II – Eng Mech – Dynamics [6592]	13037210	ENGR 2302	3
SRD II – Environ Sci I [6594]	13037210	ENVR 1401	4	SRD II – Electric Circuits [6593]	13037210	ENGR 2305	3
SRD III – Microbiology [6596]	13037220	BIOL 2421	4	SRD III – Zoology [6595]	13037220	BIOL 1413	4
SRD L – Organic Chem II [6598]	84800SRD	CHEM 2425	4	SRD L – Organic Chem [6597]	84800SRD	CHEM 2423	4
SRD II – Physical Geology [6600]	13037210	GEOL 1403	4	SRD L – Mech of Materials [6599]	84800SRD	ENGR 2332	3
SRD III – Physics II [6602]	13037220	PHYS 2426	4	SRD III – Physics I [6601]	13037220	PHYS 2425	4
Computer Sci II – Prog Fund II [3139]	03580300	COSC 1337	3	Computer Sci II – Prog Fund [3138]	03580300	COSC 1336	3
Computer Sci III – Prog Fund III [3141]	03580350	COSC 2336	3	Computer Sci III – Comp Org [3140]	03580350	COSC 2325	3

Central Texas College – Concurrent Enrollment Courses

Concurrent enrollment courses will receive high school credit provided the final grade is 70 or above.

KISD Course Information		Cr	PEIMS	CTC Courses	Hrs
4831C	Scientific Research and Design 2 Biology Concurrent	1.0	IHE11200	BIOL 1406/1407	8
4832C	Scientific Research and Design Chemistry Concurrent	1.0	13037200	CHEM 1411/1412	8
5300C	Economics	0.5	03310300	ECON2301 or	3
5300C	Economics	0.5	03310300	ECON2302	3
1104C	English III	1.0	03220300	ENGL1301/1302	6
1105C	English IV	1.0	03220400	ENGL2322/2323	6
5302C	US Government	0.5	03330100	GOVT2305	3
5463C	Special Topics-SS I	0.5	03380002	GOVT2306	3
5303C	US History	1.0	03340100	HIST1301/1302	6
3562C	Independent Study in Math College Algebra/PreCal Concurrent	1.0	03102500	MATH1314/2412	8
3446C	Independent Calculus	1.0	03102500	MATH2413/2414	8
4835C	Scientific Research and Design 3 Physics Concurrent	1.0	13037220	PHYS1401/1402	8
6307C	Communication Appl	0.5	03241400	SPCH1315	3
5305C	Social Studies Advanced Studies-- Psychology	0.5	03380001	PSYC2301	3
5306C	Social Studies Advanced Studies-- Sociology	0.5	03380001	SOCI1301	3
1338C	Art I, Art Appreciation	1	03500110	HUMA1315	3

Special Education

Notes: * Local Credit Only. Prerequisites are determined by the ARD.

Students in these courses require modified, direct and intensive instruction in order to acquire, maintain, and transfer skills to other contexts. ARD committee approval is required for enrollment to these courses and the student's IEP must contain standards-based IEP goals indicating modified content is required to access the grade-level curriculum.

Students in these courses have access to the grade-level curriculum and environment with specialized academic instruction and techniques over an extended period of time for retention of learning and transfer of skill to other settings.

OCCUPATIONAL PREP I-IV [*5913, *5914, *5915, *5916]

Placement: 9-12 Credits: 1 each PEIMS: *85000PR1, *85000PR2, *85000PR3, *85000PR4

In these courses, students gain knowledge and skills that help them become proficient in one or more career/business areas. Students cover pre-employment and employability skills such as job applications and job interview skills. Math, social and communication skills are featured as they relate to employability skills.

OCCUPATIONAL TRAINING I-VIII [*5842, *5843, *5844, *5845, *5855, *5856, *5857, *5858]

Placement: 9-12 Credits: 1 each PEIMS: *85000TR1, *85000TR2, *85000TR3, *85000TR4, *85000TR5, *85000TR6, *85000TR7, *85000TR8

These courses supports special needs students in their employment. The campus Vocational Adjustment Coordinator (VAC) supervises students in their outside employment by maintaining contact with the students' employers and keeping a job skills matrix for each enrolled student.

COMMUNITY BASED VOCATIONAL INSTRUCTION (CBVI) 1-8 [*4425, *4426, *4427, *4428, *4429, *4430, *4455, *4461] or [*4625, *4626, *4627, *4628, *4629, *4630, *4655, *4661]

Placement: 9-12 Credits: 2 each PEIMS: *85000VI1, *85000VI2, *85000VI3, *85000VI4, *85000VI5, *85000VI6, *85000VI7, *85000VI8

CBVI exposes students briefly to a variety of work settings to help them make decisions about future career directions or occupations. The exploration process involves investigating interest, values, beliefs, strengths and weaknesses in relation to the demand and other characteristics of work environments.

GENERAL EMPLOYABILITY [5897]

Placement: 11-12 Credits: 1 PEIMS: N1270153

This course will provide instruction in general employability skills. Employability skills are the skills and attitudes that employees need to acquire for work place readiness. Skills include: getting along with co-workers, making important work-related decisions, and becoming strong members of the work team.

ACTIVITIES OF DAILY LIVING – MAKING CONNECTIONS AND PEER ASSIST (PBS/TLC) I-IV [5803, 5806, 5809, 5812]

Placement: 9-12 Credits: 1each PEIMS: N1290332-N1290333, N1290334-N1290335, N1290203, N1290204

Students in this course will develop a greater understanding of social communication, interaction, and reciprocity. Students will identify, rehearse, and implement specific interpersonal skill. Students will work toward an understanding of the behavioral aspects of specific disabilities and how these are addressed for increasingly pro-social interactions.

Graduation Requirements

Grades 9-10-11-12

(Students entering high school 2014-2015)

Foundation High School Program with Endorsement (TOTAL CREDITS-26)

Note: Students must enter high school on the Foundations High School Program (FHSP) with endorsements.

English – English I, II, III and an advanced English course	4
Mathematics – Algebra I, Geometry and two advanced mathematics course	4
Science – Biology & three advanced science courses. One credit must be from IPC, Chemistry, Physics, and Principles of Technology	4*
Social Studies – U.S. History, Government (0.5), Economics (0.5) and World Geography or World History	3
Languages Other Than English (LOTE)	2
Physical Education	1
Fine Arts	1
Electives	7

TOTAL CREDITS 26

- *One credit must be selected from IPC, Chemistry, AP or IB Chemistry, Physics, AP or IB Physics, or Principles of Technology (Both Physics and Principles of Technology may not be used to fulfill the science credit.

Distinguished Achievement

A student may earn a distinguished level of achievement by successfully completing the FHSP and the requirements for at least one endorsement including four credits in science and four credits in mathematics to include Algebra II.

Performance Acknowledgments

Performance Acknowledgments are subject to revisions based on final draft of 19 TAC, Chapter 74 (B)

*Dual Credits:

1. Completes 12 hours of college academic courses with at least a grade of 3.0 on a 4.0 scale OR
2. Earns an Associate Degree while in high school.

*Bilingualism and Biliteracy: Proficiency in two or more languages

Completes all ELA requirements with at least an 80 average out of 100 AND:

*Completes 3 credits in a LOTE with at least an 80 average or completes level IV of a LOTE with an 80 average OR

*Completes 3 credits in foundation subject area courses in a LOTE with at least an 80 average OR

*Demonstrates proficiency in an LOTE with a score of at least 3 on an AP exam, at least a 4 on an IB exam or a score of at least Intermediate High or its equivalent on a national assessment of language proficiency.

*In addition, an English language learner must have also participated in and met the exit requirements for the bilingual program or the ESL program AND scored at least Advanced High on the TELPAS.

*AP or IB exam:

Scored at least a 3 on an AP exam or scored at least a 4 on an IB exam.

*Outstanding performance:

1. PSAT/NMSWQT® qualifies student as Commended Scholar or higher as part of NHRP or National Achievement Scholarship Program of the National Merit Scholarship Corporation OR
2. Achieve college readiness benchmark score on at least 3 of 5 subject tests on the ACT-Aspire™ OR
3. Earn a total score of at least 1310 on the SAT® OR
4. Earn a composite score of 28 (excluding the writing sub score) on the ACT®.

*Certificate or License:

1. Performs on examinations to obtain a nationally or internationally recognized business or industry certification OR
2. Performs on an examination to obtain a government-required credential to practice a profession.

Grades 9 – 10 – 11 – 12

International Baccalaureate Program

Middle Years Program: 9th & 10th Grades MYP CORE REQUIREMENTS

- ***Community & Service Hours** (25 each year for a total of 50)
- ***Personal Project** – Completed over the 9th & 10th years
- ***IB – MYP Design Technology** (formerly AVES)
IB – MYP Students
- *Must take P-AP or AP level courses
- *Should maintain an 80% or above on all classes
- *Failing grades (below 70%) will place a student on academic probation
- *At the end of the 10th grade, an **application interview** with **BOTH** the IB Coordinator and the IB Counselor will be required of **ALL** students wanting to be considered for International Baccalaureate Diploma Program
- Note:** The application interview will focus primarily on **GRADES** and the **COMPLETION** of **MYP CORE** requirements

MYP Core Courses

English: P-AP English I & II

Foreign Language: Options: French, German or Spanish)

Social Studies: P-AP World Geography & AP World History

Science:

- P-AP Biology
- *P-AP Chemistry
- *P-AP Physics

Math: P-AP Algebra I, P-AP Geometry, & P-AP Algebra II

Fine Arts: 1 credit recommended in 9th – 10th grades

- *Art
- *Band
- *Choir
- *Dance
- *Theater

Physical Education

***Note:** MYP Core Requirements may change due to HB5 changes.

Diploma Program: 11th & 12th grades DP CORE REQUIREMENTS

- ***IB Theory of Knowledge (TOK) and TOK Essay**
- ***Creativity, Action, and Service Hours (CAS)** – 150 hours
- ***Extended Essay** – 4,000 word research paper
IB – Diploma Candidates
- *Choose **ONE** subject from each of the six IB groups
- *take **SL/HL** course exams in May as a junior and/or senior
- *Earn the **IB Diploma IF they SUCCESSFULLY** complete three **SL** course exams with a score of 3 or more, **AND** earn a total of **12 points from the HL exams, AND** earn a passing score on **BOTH** the Theory of Knowledge Essay and Extended Essay **AND** complete **150 CAS** hours, **AND** compile a total of **at least 24 points**.
SL = 1 year of study; HL = 2 years of study

DP Core Courses

Group 1: IB English III HL and IB English IV HL

Group 2: IB Language other than English IV French, German or Spanish

Group 3: IB History; Americas I HL and Americas II HL

Group 4: IB Computer Science I HL and II HL; IB Computer Science SL (SR&D) = Scientific Research & Design)
IB Biology I HL, SR&D IB Biology II HL, IB Biology SL
IB Chemistry I HL, SR&D IB Chemistry II HL, IB Chemistry I SL
IB Environmental Systems SL

Group 5: IB Mathematical Studies SL, IB Mathematics SL

Group 6: IB Dance SL
IB Music I & II HL, IB Music SL
IB Theater Arts I & II HL, IB Theater Arts SL
Art/Design HL, Art/Design SL A & B
IB Film I & II, IB Film SL

Texas Graduation Requirement: Government & Economics

Foundation HSP with Endorsement – 26 credits

(Students entering high school 2014-2015 and after)

STAAR/EOC: English I English II Algebra Biology U S History

Note: Students must enter high school on the Foundations High School Program (FHSP) with endorsements.

English – 4 credits

English I
 English II
 English III

Math – 4 credits

Algebra I
 Geometry

Science 4 credits

Biology

Social Studies –3 credits

WGeo/WHist
 US History
 Government
 Economics

LOTE – 2 credits

 Physical Ed – 1credit

Electives – 5 credits

Fine Arts – 1credit

Additional Credits for Endorsement – 2 credits

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Endorsements

STEM
 BUSINESS & INDUSTRY
 ARTS & HUMANITIES
 PUBLIC SERVICE
 MULTIDISCIPLINARY

Performance Acknowledgments

DUAL CREDIT
 BILINGUALISM & LITERACY
 AP or IBEXAM
 OUTSTANDING PERFORMANCE
 CERTIFICATE or LICENSE

Distinguished Achievement

ENDORSEMENT
 SCIENCE (4 credits)
 MATH (4 credits including Algebra)

Revision Log



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