

KILLEEN INDEPENDENT SCHOOL DISTRICT



ACADEMIC, CAREER, AND POST-
SECONDARY HANDBOOK FOR
STUDENTS AND PARENTS

2024-2025

COURSE SELECTION GUIDEBOOK



A Publication of the Learning Services and Guidance & Counseling Departments

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Course Selection Guide

High School Instructional Program 2024-2025

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

HNRS	Honors
AP	Advanced Placement
DC	Dual Credit

Prerequisites

***Prerequisites require successful completion.**

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

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Course Selection Guide

- The following abbreviations will be used:
HNRS = Honors, 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, AP, and Dual Credit courses have been identified as meeting the needs of Gifted and Talented (GT) students.
- All Advanced Placement (AP) courses must be approved by the College Board. Please see your guidance counselor about availability at your school.

On-Line Learning

Killeen ISD is committed to providing diverse learning opportunities for our students by offering distance learning through the Texas Virtual School Network (TxVSN) and local online courses. To learn more about participating in these programs, please contact your guidance counselor for detailed guidelines.

The TxVSN offers supplementary online courses to students across the state. These courses, aligned with the traditional semester schedule, are taught by instructors from various educational institutions, including other Texas school districts, open enrollment charter schools, Education Service Centers, and higher education institutions. While there is a nominal fee associated with TxVSN courses (typically ranging from \$350 to \$475, depending on the subject and provider), priority enrollment is given to students fulfilling high school graduation requirements. To explore the diverse range of courses available, visit the TxVSN Catalog on their website at <https://www.txvsn.org>.

Each high school campus also provides opportunities for students to participate in "blended" online courses facilitated by a Killeen ISD teacher. Whether working on assignments and quizzes at school or from the comfort of home, students receive support and instruction from teachers who are readily available on campus. Students may complete assignments and lesson quizzes at school or at home, but tests and the semester examination must be completed on campus. There is no fee for local online course work. Both credit recovery and credit advancement course work is available. Participation guidelines for online learning are established by each high school campus, taking into account district policies, available resources, and staff expertise.

English Language Arts

Note: Graduation requirements for Emergent Bilingual (E.B.) 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 Course options can be found in the Dual Credit section of the course catalog.

ENGLISH I [1102]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

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-HNRS [1143]

Placement: 9-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

PEIMS: 03220100

Prerequisite: None

This course includes an intensive approach to the study of language, composition, and literary skills. The enhanced curriculum provides an in-depth study of short stories, plays, novels, compositions, and the mechanics of grammar through long-term projects, cooperative learning, and research. This course goes beyond the essential knowledge and skills for English I in depth and complexity.

ENGLISH I MOD [5901] (ARD Committee Approval)

Placement: 9-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03220100

Prerequisite: None

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 I FOR SPEAKERS OF OTHER LANGUAGES [1100]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 03200600

Prerequisite: Departmental screening; Documentation as Emergent Bilingual Student; Identified as Immigrant

Note: This course can be taken by itself or concurrently with English Language Dev and Acquis [156].

This course focuses on a thematic approach to literature integrating the writing process. Students will study the elements of literature and review reading as well as 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 II [1103] HS & CC

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

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-HNRS [1161] HS & CC

Placement: 10-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

PEIMS: 03220200

Prerequisite: Recommend English I

This course involves students in learning the essential knowledge and skills of English II while providing greater depth. The enhanced curriculum provides an in-depth study of literary and informational texts such as short stories, essays, dramas, novels, and poetry. Students will engage in critical reading, write in a variety of forms, and develop advanced research skills.

English Language Arts Continued

ENGLISH II MOD [5905] (ARD Committee Approval)

Placement: 10-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03220200

Prerequisite: Recommend English I

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 II FOR SPEAKERS OF OTHER LANGUAGES [1101]

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 03200700

Note: This course can be taken by itself or concurrently with English Language Dev and Acquis [1156 or 1158]

Prerequisite: Departmental screening; Documentation as Emergent Bilingual 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 LANGUAGE DEV AND ACQUIS [1156]

ENGLISH LANGUAGE DEV AND ACQUIS II [1158]

Placement: 9-12 Credits: 1 each Course Level: Basic Counted in GPA/Rank: N

PEIMS: 03200800, 03200810

Prerequisite: This course must be taken concurrently with a corequisite language arts course as outlined in Chapter 110 or Chapter 128. Recommended corequisites: English I for Speakers of Other Languages (ESOL I) and English II for Speakers of Other Languages (ESOL II).

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

This course enables students to become increasingly more proficient in English in all four language domains. It addresses cognitive, linguistic, and affective needs in compliance with federal requirements and the provisions of Chapter 89, Subchapter BB, of this title (relating to Commissioner's Rules Concerning State Plan for Educating English Language Learners) under the Texas Education Code, §§29.051-29.064.

ENGLISH III [1104] HS & CC

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

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-HNRS [1176] HS & CC

Placement: 11-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

PEIMS: 03220300

Prerequisite: Recommend English II

This course will cover the essential knowledge and skills of English III while providing greater depth. Students will read increasingly challenging texts, both classic and contemporary, fiction and nonfiction. Students will be challenged by complex writing tasks in literary, informational, argumentative, literary analysis, rhetorical analysis, and synthesis in order to build capacity to write effectively in these modes. 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 MOD [5906] (ARD Committee Approval)

Placement: 11-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

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.

AP ENGLISH LANGUAGE & COMPOSITION (III) [1136]

Placement: 11-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y

PEIMS: A3220100

Prerequisite: Recommend English II

Note: All students enrolled are expected to take the AP exam aligned with this course.

This advanced placement course allows students to become skilled readers of prose written in a variety of periods, discipline, and context 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 the student to write effectively and confidently.

English Language Arts Continued

ENGLISH IV [1105] HS & CC

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

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 HNRS [1189] HS & CC

Placement: 11-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

PEIMS: 03220400

Prerequisite: Recommend English III

Students will develop concepts and skills in writing, language, literature, and reading through the process approach. Major topics will include essays, novels, and vocabulary development. This course will provide a concentrated analytical and interpretive study of English literature from the Anglo-Saxon period through the twentieth century. A research and critical analysis project will be completed.

ENGLISH IV MOD [1187] (ARD Committee Approval)

Placement: 11-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

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.

AP ENGLISH LITERATURE & COMPOSITION IV [1137]

Placement: 11-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y

PEIMS: A3220200

Prerequisite: Recommend English III or AP English Language & Composition

Note: All students enrolled are expected to take the AP exam aligned with the course.

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

ENGLISH ALT I - IV [4401, 4402, 4403, 4404] or [4601, 4602, 4603, 4604]

(ARD Committee Approval)

Placement: 9-12 Credits: 1 each Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03220107, 03220207, 03220300, 03220400

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

ANALYSIS OF VISUAL MEDIA [1109]

Placement: 11-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: Y

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 Course Level: Regular Counted in GPA/Rank: Y

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 to meeting deadlines with quality performance.

English Language Arts Continued

ADVANCED BROADCAST JOURNALISM I & II [1121, 1122]

Placement: 10-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: Y

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.

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

Placement: 10-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: Y

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 Course Level: Regular Counted in GPA/Rank: Y

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 Course Level: Regular Counted in GPA/Rank: Y

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 Course Level: Regular Counted in GPA/Rank: Y

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 GENRES [1334]

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

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 Course Level: Regular Counted in GPA/Rank: Y

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. The course may be used for EOC remediation.

English Language Arts Continued

RESEARCH/TECHNICAL WRITING [1214]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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: 1 each Course Level: Basic Counted in GPA/Rank: N

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 dyslexia.

READING IV DYSLEXIA [1325]

Placement: 12 Credits: 1 Course Level: Basic Counted in GPA/Rank: N

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 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 Course Level: Basic Counted in GPA/Rank: N

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 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.

English Language Arts Continued

COLLEGE PREPARATORY ENGLISH [1350]

Placement: 12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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.

COMMUNICATION APPLICATIONS [6307] HS & CC

Placement 9-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 03241400

Prerequisite: None

Note: 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.

Mathematics

Note: Dual Enrollment Course options can be found in the Dual Credit section of the course catalog.

ALGEBRA I [3350]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

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 throughout the course. Students will analyze, solve and/or justify solutions using technology as a tool where appropriate.

ALGEBRA I-HNRS [3382]

Placement: 9-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

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 MOD [5902] (ARD Committee Approval)

Placement: 9-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

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 throughout the course. 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 Course Level: Basic Counted in GPA/Rank: Y

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]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 03100700

Prerequisite/Corequisite: 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.

GEOMETRY-HNRS [3394]

Placement: 9-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

PEIMS: 03100700

Prerequisite/Corequisite: 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.

GEOMETRY MOD [5912] (ARD Committee Approval)

Placement: 9-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03100700

Prerequisite/Corequisite: 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.

Mathematics Continued

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

Placement: 9-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03100700

Prerequisite/Corequisite: Algebra I

Students 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.

MATHEMATICAL MODELS WITH APPLICATIONS [3355]

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

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.

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

Placement: 10-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

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.

ALGEBRAIC REASONING [3576]

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 03102540

Prerequisite: Algebra I

Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these 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.

ALGEBRAIC REASONING MOD [5917] (ARD Committee Approval)

Placement: 10-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

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 such as probes, measurement tools, software tools, and spreadsheets.

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

Placement: 10-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03102540

Prerequisite: Algebra I

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

FINANCIAL MATH [3575] CC

Grade: 10-12 Credit: 1 Course Level: Regular Counted in GPA/Rank: Y

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.

STATISTICS [3574]

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

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.

Mathematics Continued

ALGEBRA II [3352] HS & CC

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y
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.

ALGEBRA II-HNRS [3391] HS & CC

Placement: 9-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y
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.

ALGEBRA II MOD [5911] (ARD Committee Approval)

Placement: 9-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y
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.

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

Placement: 9-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y
PEIMS: 03100600

Prerequisite: Algebra I and recommend Geometry

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

COLLEGE PREPARATORY MATHEMATICS [3589]

Placement: 12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N
PEIMS: CP111200

Prerequisite: Completion of 3 math credits and 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.

ADVANCED QUANTITATIVE REASONING [3568]

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y
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.

ENGINEERING MATHEMATICS [7966]

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank:
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.

Mathematics Continued

INDEPENDENT STUDY IN MATH 2 - STATISTICS [3559]

Placement: 11-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: Y
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 Course Level: Regular Counted in GPA/Rank: Y
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 trigonometric concepts in preparation for entry level college math courses or the work force.

PRECALCULUS [3354] HS & CC

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y
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-HNRS [3401] HS & CC

Placement: 10-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y
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.

AP PRECALCULUS [3371]

Placement: 11-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y
PEIMS: A3100100

Prerequisite: Algebra I, Geometry, Algebra II

Note: All students enrolled are expected to take the AP exam aligned with this course.

In AP Precalculus, students explore everyday situations using mathematical tools and lenses. The proposed course framework focuses on key units of study that colleges expect students to demonstrate to qualify for credit or placement.

STATISTICS AND BUSINESS DECISION MAKING [7963] CC

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y
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.

AP CALCULUS (AB) [3367]

Placement: 11-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y
PEIMS: A3100101

Prerequisite: Precalculus or College Precalculus MATH 2412

Note: All students enrolled are expected to take the AP exam aligned with this course.

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.

Mathematics Continued

AP CALCULUS (BC) [3368]

Placement: 11-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y
PEIMS: A3100102

Prerequisite: Precalculus or College Precalculus MATH 2412

Note: All students enrolled are expected to take the AP exam aligned with this course.

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.

AP COMPUTER SCIENCE A [74041] AC

Placement: 11-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y
PEIMS: A3580110

Prerequisite: Recommend Computer Science I or Algebra II

Corequisite: AP Computer Science A [74041] and AP Computer Science [74042] must be taken concurrently.

Note: All students enrolled are expected to take the AP exam aligned with this course.

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.

AP STATISTICS [3369]

Placement: 11-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y
PEIMS: A3100200

Prerequisite: Recommend Algebra II and Geometry

Note: All students enrolled are expected to take the AP test aligned with this course.

In this course students will analyze and evaluate data graphically and/or numerically 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.

STRATEGIC LEARNING FOR HS MATH [3360]

Placement: 9-10 Credits: 1 Course Level: Regular Counted in GPA/Rank: N
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.

Science

Note: Dual Enrollment Course options can be found in the Dual Credit section of the course catalog.

BIOLOGY [4700]

Placement: 9-11 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y
PEIMS: 03010200
Prerequisite: None

Students in Biology focus on patterns, processes, and relationships of living organisms through four main concepts: biological structures, functions, and processes; mechanisms of genetics; biological evolution; and interdependence within environmental systems. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

BIOLOGY-HNRS [4723]

Placement: 9-11 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y
PEIMS: 03010200
Prerequisite: None

Students in Biology focus on patterns, processes, and relationships of living organisms through four main concepts: biological structures, functions, and processes; mechanisms of genetics; biological evolution; and interdependence within environmental systems. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

BIOLOGY MOD [5903] (ARD Committee Approval)

Placement: 9-11 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y
PEIMS: 03010200
Prerequisite: None

Students in Biology focus on patterns, processes, and relationships of living organisms through four main concepts: biological structures, functions, and processes; mechanisms of genetics; biological evolution; and interdependence within environmental systems. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

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

Placement: 9-11 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y
PEIMS: 03010207
Prerequisite: None

This course will focus on the acquisition of biological systems necessary for normal life activities including personal health and hygiene.

AP BIOLOGY [4713]

Placement: 11-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y
PEIMS: A3010200
Prerequisite: Recommend Biology and Chemistry

Note: All students enrolled are expected to take the AP exam aligned with this course

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.

INTEGRATED PHYSICS AND CHEMISTRY (IPC) [4707]

Placement: 9-10 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y
PEIMS: 03060201
Prerequisite: None

In Integrated Physics and Chemistry, students conduct laboratory and field investigations, use engineering practices, use scientific practices during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

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

Placement: 9-10 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y
PEIMS: 03060201
Prerequisite: None

In Integrated Physics and Chemistry, students conduct laboratory and field investigations, use engineering practices, use scientific practices during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

Science

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

Placement: 9-10 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03060201

Prerequisite: None

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

CHEMISTRY [4703] HS & CC

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 03040000

Prerequisite: 1 credit of high school science and Algebra I; Recommended: completion of or concurrent enrollment in 2nd year of math

In Chemistry, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory, chemical bonding, chemical stoichiometry, gas laws, solution chemistry, acid-base chemistry, thermochemistry, and nuclear chemistry. Students investigate how chemistry is an integral part of our daily lives. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

CHEMISTRY-HNRS [4731] HS & CC

Placement: 10-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

PEIMS: 03040000

Prerequisite: 1 credit of high school science and Algebra I; Recommended: completion of or concurrent enrollment in 2nd year of math

In Chemistry, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory, chemical bonding, chemical stoichiometry, gas laws, solution chemistry, acid-base chemistry, thermochemistry, and nuclear chemistry. Students investigate how chemistry is an integral part of our daily lives. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

CHEMISTRY MOD [5909] (ARD Committee Approval)

Placement: 10-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03040000

Prerequisite: 1 credit of high school science and Algebra I; Recommended: completion of or concurrent enrollment in 2nd year of math

In Chemistry, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory, chemical bonding, chemical stoichiometry, gas laws, solution chemistry, acid-base chemistry, thermochemistry, and nuclear chemistry. Students investigate how chemistry is an integral part of our daily lives. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

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

Placement: 10-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03040000

Prerequisite: 1 unit of science and Algebra I; Recommended completion or concurrent enrollment in 2nd year of math

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

AP CHEMISTRY [4715]

Placement: 9-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y

PEIMS: A3040000

Prerequisite: Recommend Chemistry and Algebra II

Note: All students enrolled are expected to take the AP exam aligned with this course.

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.

PHYSICS [4704] HS & CC

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 03050000

Prerequisite: Recommended completion or concurrent Algebra I

In Physics, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include laws of motion, changes within physical systems and conservation of energy and momentum, forces, characteristics and behavior of waves, and electricity and magnetism. Students will apply conceptual knowledge and collaborative skills to experimental design, implementation, and interpretation. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

Science Continued

PHYSICS-HNRS [4732] HS & CC

Placement: 10-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y
PEIMS: 03050000

Prerequisite: Recommended completion or concurrent Algebra I

In Physics, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include laws of motion, changes within physical systems and conservation of energy and momentum, forces, characteristics and behavior of waves, and electricity and magnetism. Students will apply conceptual knowledge and collaborative skills to experimental design, implementation, and interpretation. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

PHYSICS MOD [5910] (ARD Committee Approval)

Placement: 10-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y
PEIMS: 03050000

Prerequisite: Recommended completion or concurrent Algebra I

In Physics, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include laws of motion, changes within physical systems and conservation of energy and momentum, forces, characteristics and behavior of waves, and electricity and magnetism. Students will apply conceptual knowledge and collaborative skills to experimental design, implementation, and interpretation. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

AP PHYSICS I ALGEBRA – BASED [4833]

Placement: 10-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y
PEIMS: A3050003

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

Note: All students enrolled are expected to take the AP exam aligned with this course.

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 Course Level: Advanced Counted in GPA/Rank: Y
PEIMS: A3050004

Prerequisite: Recommend AP Physics I & Precalculus concurrently

Note: All students enrolled are expected to take the AP exam aligned with this course.

AP Physics II is an Algebra-Based curriculum framework which is structured about the “big ideas” of physics, which 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: 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.

PRINCIPLES OF TECHNOLOGY [7884] HS & CC

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y
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.

ADVANCED ANIMAL SCIENCE [7952] CC

Placement: 12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y
PEIMS: 13000700

Prerequisite: Biology, Chemistry (or IPC), Algebra I, Geometry, and either Small 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.

Science Continued

ADVANCED PLANT AND SOIL SCIENCE [7969] CC

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y
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-HNRS [7653] HS & CC

Placement: 11-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y
PEIMS: 13020600

Prerequisites: Biology and a one credit in chemistry, Integrated Physics and Chemistry, or physics. Recommended Prerequisite: a course from the Health Science Career Cluster.

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.

AQUATIC SCIENCE [4702]

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y
PEIMS: 03030000

Prerequisite: One unit of high school biology. Recommended prerequisite: Integrated Physics and Chemistry, Chemistry, or concurrent enrollment in either course

In Aquatic Science, students study the interactions of biotic and abiotic components in aquatic environments, including natural and human impacts on aquatic systems. Investigations and field work in this course may emphasize fresh water or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school. Students who successfully complete Aquatic Science acquire knowledge about how the properties of water and fluid dynamics affect aquatic ecosystems and acquire knowledge about a variety of aquatic systems. Students who successfully complete Aquatic Science conduct investigations and observations of aquatic environments, work collaboratively with peers, and develop critical thinking and problem-solving skills.

AQUATIC SCIENCE MOD [5918] (ARD Committee Approval)

Placement: 10-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y
PEIMS: 03030000

Prerequisite: One unit of high school biology. Recommended prerequisite: Integrated Physics and Chemistry, Chemistry, or concurrent enrollment in either course

In Aquatic Science, students study the interactions of biotic and abiotic components in aquatic environments, including natural and human impacts on aquatic systems. Investigations and field work in this course may emphasize fresh water or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school. Students who successfully complete Aquatic Science acquire knowledge about how the properties of water and fluid dynamics affect aquatic ecosystems and acquire knowledge about a variety of aquatic systems. Students who successfully complete Aquatic Science conduct investigations and observations of aquatic environments, work collaboratively with peers, and develop critical thinking and problem-solving skills.

AQUATIC SCIENCE ALT [4452/4652] (ARD Committee Approval)

Placement: 10-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y
PEIMS: 03030000

Prerequisite: One unit of high school biology. Recommended prerequisite: Integrated Physics and Chemistry, Chemistry, or concurrent enrollment in either course

This course will focus on the aquatic concepts necessary for daily life activities.

ASTRONOMY [4706]

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y
PEIMS: 03060100

Prerequisite: Algebra I and Integrated Physics and Chemistry or Chemistry

In Astronomy, students focus on patterns, processes, and relationships among astronomical objects in our universe. Students acquire basic astronomical knowledge and supporting evidence about sun-Earth-Moon relationships, the solar system, the Milky Way, the size and scale of the universe, and the benefits and limitations of exploration. Students conduct laboratory and field investigations to support their developing conceptual framework of our place in space and time. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

Science Continued

BIOTECHNOLOGY I [7968]

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 13036400

Prerequisite: One credit in biology. Recommended prerequisites: Chemistry and Principles 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.

EARTH SYSTEMS SCIENCE [4840]

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS:

Prerequisite: Algebra I and two credits of high school science

The Earth Systems Science course is designed to build on students' prior scientific and academic knowledge and skills to develop their understanding of Earth's systems. These systems (the atmosphere, hydrosphere, geosphere, and biosphere) interact through time to produce the Earth's landscapes, climate, and resources. Students explore the geologic history of individual dynamic systems through the flow of energy and matter, their current states, and how these systems affect and are affected by human use.

EARTH SYSTEMS SCIENCE MOD [5925] (ARD Committee Approval)

Placement: 11-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

PEIMS:

Prerequisite: Algebra I and two credits of high school science

The Earth Systems Science course is designed to build on students' prior scientific and academic knowledge and skills to develop their understanding of Earth's systems. These systems (the atmosphere, hydrosphere, geosphere, and biosphere) interact through time to produce the Earth's landscapes, climate, and resources. Students explore the geologic history of individual dynamic systems through the flow of energy and matter, their current states, and how these systems affect and are affected by human use.

EARTH SYSTEMS SCIENCE [4479/4679] (ARD Committee Approval)

Placement: 11-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

PEIMS:

Prerequisite: Algebra I and two credits of high school science

This course will focus on the Earth and space concepts necessary for daily life activities.

ENGINEERING SCIENCE-HNRS [6502] AC

Placement: 10-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

PEIMS: 13037500

Prerequisites: Algebra I and Biology, and at least one credit in a course from the science, technology, engineering, and mathematics career cluster.

Note: Qualifies as a science credit.

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.

ENVIRONMENTAL SYSTEMS [4701]

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 03020000

Prerequisite: One unit of high school biology. Recommended prerequisite: Integrated Physics and Chemistry, Chemistry, or concurrent enrollment in either course.

In Environmental Systems, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include biotic and abiotic factors in habitats, ecosystems and biomes, interrelationships among resources and an environmental system, sources and flow of energy through an environmental system, relationship between carrying capacity and changes in populations and ecosystems, natural changes in the environment, and human activities that impact the natural environment.

Science Continued

ENVIRONMENTAL SYSTEMS-HNRS [4711]

Placement: 10-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

PEIMS: 03020000

Prerequisite: One unit of high school biology. Recommended prerequisite: Integrated Physics and Chemistry, Chemistry, or concurrent enrollment in either course.

In Environmental Systems, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include biotic and abiotic factors in habitats, ecosystems and biomes, interrelationships among resources and an environmental system, sources and flow of energy through an environmental system, relationship between carrying capacity and changes in populations and ecosystems, natural changes in the environment, and human activities that impact the natural environment.

AP ENVIRONMENTAL SCIENCE [4714]

Placement: 11-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y

PEIMS: A3020000

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

Note: All students enrolled are expected to take the AP exam aligned with this course.

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.

FORENSIC SCIENCE [7964]

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 13029500

Prerequisite: One credit in biology, one credit in chemistry, integrated physics and chemistry, or physics.

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.

PATHOPHYSIOLOGY-HNRS [6135] CC

Grade: 11-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

PEIMS: 13020800

Prerequisite: One credit in biology, one in chemistry, and at least one credit in a Level 2 or higher course from the health science career cluster.

Students conduct laboratory and field investigations, use 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.

Social Studies

Note: Dual Enrollment Course options can be found in the Dual Credit section of the course catalog.

WORLD GEOGRAPHY [5301]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

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 categories. Beginning with the formation of landforms and ending with the foundations of economics, Unit I constitutes the first category. The basic concepts covered include map skills, physical landforms, cultural traits, governmental systems, and economic forces. Unit II and the remaining units is the second category, and they help to provide an understanding of life from around the world. The final category 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 categories provide information necessary to gain an understanding of the world as a global community.

WORLD GEOGRAPHY-HNRS [5322]

Placement: 9-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

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.

WORLD GEOGRAPHY MOD [5904] (ARD Committee Approval)

Placement: 9-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

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 landforms, 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 [4408/4608] (ARD Committee Approval)

Placement: 9-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03320100

This course will focus on the acquisition of the knowledge of geography skills necessary for daily life activities.

AP HUMAN GEOGRAPHY [5314]

Placement: 9-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y

PEIMS: A3360100

Prerequisite: None

Note: All students enrolled are expected to take the AP exam aligned with this course.

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 HNRS [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 environmental consequences.

Social Studies

WORLD HISTORY [5304] HS & CC

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

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-HNRS [5327] HS & CC

Placement: 9-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

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.

WORLD HISTORY MOD [5907] (ARD Committee Approval)

Placement: 9-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

Prerequisite: None

PEIMS: 03340400

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 [4407 or 4607] (ARD Committee Approval)

Placement: 9-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03340400

This course will focus on the acquisition of knowledge of significant historical events from around the world.

AP WORLD HISTORY [5315]

Placement: 9-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y

PEIMS: A3370100

Prerequisite: None

Note: All students enrolled are expected to take the AP exam aligned with this course.

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

This course's purpose is to develop a 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

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 03340100

Prerequisite: None

Note: AP US History [5311] is a duplicate credit.

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.

Social Studies Continued

UNITED STATES HISTORY-HNRS [5336] HS & CC

Placement: 11-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

PEIMS: 03340100

Prerequisite: None

Note: AP US History [5311] is a duplicate credit.

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.

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

Placement: 11-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03340100

Prerequisite: None

Note: AP US History [5311] is a duplicate credit.

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 ALT [4409 or 4609] (ARD Committee Approval)

Placement: 11-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03340107

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

AP UNITED STATES HISTORY [5311]

Placement: 11-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y

PEIMS: A3340100

Prerequisite: None

Note: All students enrolled are expected to take the AP exam aligned with this course.

Note: US History [5303], US History HNRS [5336], and US History DC [5351] 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 GOVERNMENT [5302] HS & CC

Placement: 12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 0333010

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.

US GOVERNMENT MOD [5344] (ARD Committee Approval)

Placement: 12 Credits: 0.5 Course Level: Basic Counted in GPA/Rank: Y

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.

Social Studies Continued

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

Placement: 12 Credits: 0.5 Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03330100

Prerequisite: None

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

UNITED STATES GOVERNMENT HNRS [5346] HS & CC

Placement: 12 Credits: 0.5 Course Level: HNRS Counted in GPA/Rank: Y

PEIMS: 03330100

Prerequisite: None

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

An in-depth 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. Through independent and guided research students will be provided with the opportunity to delve further into the intricate relationships of the American governmental system. Students will be provided opportunities to compare the functions of local, state, and federal governments.

AP U.S. GOVERNMENT AND POLITICS [5309]

Placement: 12 Credits: 0.5 Course Level: Advanced Counted in GPA/Rank: Y

PEIMS: A3330100

Prerequisite: None

Note: All students enrolled are expected to take the AP exam aligned with this course.

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 May. All students are expected to take the AP test. Students who successfully complete this test may be awarded college credit at the discretion of the college.

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

Placement: 12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: Y

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.

US ECONOMICS MOD [5339] (ARD Committee Approval)

Placement: 12 Credits: 0.5 Course Level: Basic Counted in GPA/Rank: Y

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.

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

Placement: 12 Credits: 0.5 Course Level: Basic Counted in GPA/Rank: Y

PEIMS: 03310300

Prerequisite: None

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

Social Studies Continued

ECONOMICS OF THE FREE ENTERPRISE SYSTEM HNRS [5341] HS & CC

Placement: 12 Credits: 0.5 Course Level: HNRS Counted in GPA/Rank: Y

PEIMS: 03310300

Prerequisite: None

A rigorous investigation of the principles of economic laws affecting supply, demand, and price determination; a study of the corporation and other business organizations; a thorough understanding of competition, monopoly, and oligopoly markets; and the role of government in markets. Students will also be able to discern the functions of money and banking as well as the use of monetary policy to affect the economic condition of the U.S.A. Students will apply the fundamentals of taxation and government spending to current economic issues.

AP MICROECONOMICS OF THE FREE ENTERPRISE SYSTEM [5307]

Placement: 12 Credits: 0.5 Course Level: Advanced Counted in GPA/Rank: Y

PEIMS: A3310100

Prerequisite: None

Note: All students enrolled are expected to take the AP exam aligned with this course.

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.

AP MACROECONOMICS [5308]

Placement: 12 Credits: 0.5 Course Level: Advanced Counted in GPA/Rank: Y

PEIMS: A3310200

Prerequisite: None

Note: All students enrolled are expected to take the AP exam aligned with this course.

This is an Advanced Placement course in Macroeconomics designed to give the student a thorough understanding of the principles 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 develops student's familiarity with economic performance measures, economic growth and international economics such as international finance exchange rates, and balance of payments.

PERSONAL FINANCIAL LITERACY & ECONOMICS [5493] HS & CC

Placement: 12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 03380083

Prerequisite: None

Note: This course meets the Economics requirement for graduation. Personal Financial Literacy & Economics [5493] and Personal Financial Literacy [5462] are duplicate credits.

This course combines personal financial literacy with economics. Two thirds of the course content will pertain to personal financial literacy, with the remaining third of instruction spent on economics. Personal financial literacy includes understanding interest, rights and responsibilities of renting or buying a home, starting a business, saving for retirement, and methods of paying for college.

PERSONAL FINANCIAL LITERACY [5462]

Placement: 10-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 03380082

Prerequisite: None

Note: Personal Financial Literacy & Economics [5493] and Personal Financial Literacy [5462] are duplicate credits. This course does NOT meet the Economics requirement for graduation.

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.

AFRICAN AMERICAN STUDIES [5490]

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 03380085

Prerequisite: None

African American Studies introduces students to the rich and diverse history and culture of African Americans. The goal of the course is to increase understanding of the history, citizenship, economics, science, technology, geography and political realities of African Americans in a way that allows students to make deep connections across the content.

AFRICAN AMERICAN STUDIES HNRS [5500]

Placement: 10-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

PEIMS: 03380085

Prerequisite: None

African American Studies introduces students to the rich and diverse history and culture of African Americans. Students will gain an in-depth understanding of the history, citizenship, economics, science, technology, geography and political realities of African Americans in a way that allows students to make deep connections across the content.

Social Studies Continued

MEXICAN AMERICAN STUDIES [5492]

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 03380084

Prerequisite: None

In Mexican American Studies, students learn about the history and cultural contributions of Mexican Americans. Students will explore history and culture from an interdisciplinary perspective. They will have opportunities to interact with relevant film, literature, art, and other media. The course emphasizes developments in the twentieth and twenty-first centuries, but students will also engage with developments prior to the twentieth century.

MEXICAN AMERICAN STUDIES HNRS [5502]

Placement: 10-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y

PEIMS: 03380084

Prerequisite: None

An in-depth study of the history and cultural contributions of Mexican Americans will be presented. Students will explore history and culture from an interdisciplinary perspective. They will have opportunities to interact with relevant film, literature, art, and other media. The course emphasizes developments in the twentieth and twenty-first centuries, but students will also engage with developments prior to the twentieth century.

AP EUROPEAN HISTORY [5312]

Placement: 10-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y

PEIMS: A3340200

Prerequisite: None

Note: All students enrolled are expected to take the AP exam aligned with this course.

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.

PSYCHOLOGY [5305]

Placement: 10-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: Y

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.

AP PSYCHOLOGY [5313]

Placement: 10-12 Credits: 0.5 Course Level: Advanced Counted in GPA/Rank: Y

PEIMS: A3350100

Prerequisite: None

Note: All students enrolled are expected to take the AP exam aligned with this course.

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.

SOCIOLOGY [5306]

Placement: 10-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: Y

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.

Social Studies Continued

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 Course Level: Regular Counted in GPA/Rank: Y

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 III - WWI [5470]

Placement: 11-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: Y

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 Course Level: Regular Counted in GPA/Rank: Y

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

Languages Other Than English (LOTE)

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

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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-HNRS [4227]

Placement: 9-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: N

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.

Languages Other Than English (LOTE)

AP FRENCH LANGUAGE [4217]

Placement: 11-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: N

PEIMS: A3410100

Prerequisite: French III

Note: All students enrolled are expected to take the AP exam aligned with this course.

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-HNRS [4228]

Placement: 9-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: N

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 Course Level: Advanced Counted in GPA/Rank: N

PEIMS: A3420100

Prerequisite: German III

Note: All students enrolled are expected to take the AP exam aligned with this course.

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-HNRS [4230]

Placement: 9-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: N

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 Course Level: Advanced Counted in GPA/Rank: N

PEIMS: A3440100

Prerequisite: Spanish III

Note: All students enrolled are expected to take the AP exam aligned with this course.

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 Course Level: Advanced Counted in GPA/Rank: N

PEIMS: A3440200

Prerequisite: AP Spanish Language IV

Note: All students enrolled are expected to take the AP exam aligned with this course.

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 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03830100, 03830200, 03830300, 03830400

Prerequisites: Dance level II – IV require previous level Dance

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

Note: Dance I-II can be taken as a fine arts credit or a PE credit. The fine arts codes are 2200 or 2201. The PE codes are 2255 or 2256.

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 – II DRILL TEAM JV PE SUBSTITUTE [2251, 2252]

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03830100, 03830200

Prerequisite: Previous level Dance

Note: After successful completion of the fall semester, students will earn 0.5 credit in PE (PES00014 in courses 2822/2823) due to Drill Team activities. *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 with 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 III - IV DRILL TEAM JV [2253, 2254]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 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 with 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

DANCE I – II DRILL TEAM PE SUBSTITUTE [2220, 2221]

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03830100, 03830200

Prerequisite: Dance level II – IV require previous level Dance

Note: After successful completion of the fall semester, students will earn 0.5 credit in PE (PES00014 in courses 2822/2823) due to Drill Team activities.

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 with 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 III - IV DRILL TEAM [2222, 2223]

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 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 with 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 Course Level: Regular Counted in GPA/Rank: N

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. Students 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 Course Level: Regular Counted in GPA/Rank: N

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 contests 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 Course Level: Regular Counted in GPA/Rank: N

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 (JUNIOR VARSITY) [1863, 1864, 1865, 1866]

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

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 contests 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 Course Level: Regular Counted in GPA/Rank: N

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 contests 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 (VARSITY) [1991, 1957, 1958, 1959]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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 contests 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 Course Level: Regular Counted in GPA/Rank: N

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 contests 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 Course Level: Regular Counted in GPA/Rank: N

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.

Fine Arts Continued

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

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

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 – II BAND COLOR GUARD PE SUBSTITUTION [2240, 2241]

Placement: 9-10 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03150100, 03150200

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

Note: After Successful Completion of the fall semester, students will earn 0.5 credit in PE (PES00012 in courses 2240/2241) due to marching band activities. *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 III – IV BAND COLOR GUARD [2242, 2243]

Placement: 11-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03150300, 03150400

Prerequisite: Music level II – IV course 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: Choir

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

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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.

Fine Arts Continued

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

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 (SUB NON-VARSITY) [2180, 2181, 2182, 2183]

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

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.

MUSIC I – IV CHOIR TENOR/BASS (NON-VARSITY) [2160, 2161, 2162, 2163]

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

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.

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

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

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.

Fine Arts Continued

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

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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]

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

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 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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 sounds 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 I – IV MARIACHI [8006, 8007, 8008, 8009] (Harker Heights HS only)

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03153800, 03153900, 03154000, 03154100

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

Mariachi Students will participate in both curricular and extracurricular activities.

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

Students will describe and analyze musical sounds 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 I – IV ORCHESTRA (NON-VARSITY) [1900, 1901, 1902, 1903] (Harker Heights HS only)

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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

MUSIC THEORY I [2400]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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.

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

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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 they relate 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 Course Level: Regular Counted in GPA/Rank: N

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 they relate 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 themselves with such technologies as digital audio workstations (DAWS), music notation software and digital video editing.

MUSIC THEORY II [2401] (Harker Heights HS only)

Placement: 10-12 Credit: 1 Course Level: Regular Counted in GPA/Rank: N

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 composition.

AP MUSIC THEORY [2402]

Placement: 10-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: N

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.

Fine Arts Continued

Theater

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

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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.

MUSICAL THEATRE I – IV [2304, 2305, 2306, 2307]

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03251900, 03252100, 03252200, 03252200

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

Musical Theatre will expose students to a wide range of on-stage performance disciplines, including acting performance, vocal performance, and dance performance. The course will also provide an atmosphere in which students benefit from a teaching and learning experience in these performance disciplines of musical theatre. Students will receive comprehensive and rigorous instruction so that they may make informed choices about the craft, college, and the profession. The course will enhance and cultivate the creative gifts of each student while encouraging a sense of self-confidence. The course will enable students to study and perform the varied styles of musical theatre with special attention to the principles of stage movement, stage vocal technique, stage choreography, acting, characterization, and other aspects of a musical production.

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

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

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.

THEATRE PRODUCTION I [2320]

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03250700

Prerequisite: District requirement: Theatre IV

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.

Fine Arts Continued

THEATRE III, DIRECTING I [8402]

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03251700

Prerequisite: Theatre II

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

Students learn the basic principles of directing from play analysis, preparing for rehearsals, effective rehearsal techniques, and collaborating with designers through to the final stages of production. Students will develop artistic self-discipline, leadership, collaboration, and evaluation skills. Students will direct scenes and one-acts. Students will participate in both curricular and extra-curricular activities as part of this course. Attendance at rehearsals and performances outside of the school day may be required.

TECHNICAL THEATRE I [2340]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 [2423]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N
PEIMS: 03500110
Prerequisite: None

DIGITAL ART AND ANIMATION [3129]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N
PEIMS: 03580500
Prerequisite: 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.

FLORAL DESIGN [7953] HS &CC

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N
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.

Visual Art: Level II

ART II, DRAWING I [1620]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N
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 Course Level: Regular Counted in GPA/Rank: N
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 Course Level: Regular Counted in GPA/Rank: N
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.

Fine Arts Continued

Visual Art: Level III

ART III, DRAWING II [1630]

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03501300

Prerequisite: Art II, Drawing I

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 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03501400

Prerequisite: Art II, Painting I

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 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03501900

Prerequisite: Art II, Sculpture I

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 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03502300

Prerequisite: Art III, Drawing II

This course is a highly advanced course for perfecting the various drawing art processes, procedures, theories, concepts, and art judgment along with the development of personal voice in artmaking. 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 of creating a new and creative expression or voice.

ART IV, PAINTING III [1659]

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03502400

Prerequisite: Art III, Painting II

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 artmaking. 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 of creating a new and creative expression or voice.

ART IV, SCULPTURE III [1660]

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03502800

Prerequisite: Art III, Sculpture II

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 artmaking. The approach is conceptual and experimental in use of 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 of creating a new and creative expression or voice.

Fine Arts Continued

Visual Art: AP

AP STUDIO ART: DRAWING [1650]

Placement: 10-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: N

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 Course Level: Advanced Counted in GPA/Rank: N

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 Course Level: Advanced Counted in GPA/Rank: N

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 Course Level: Advanced Counted in GPA/Rank: N

PEIMS: A3500100

Prerequisite: None

Note: All students enrolled are expected to take the AP exam aligned with this course.

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 Course Level: Basic Counted in GPA/Rank: N

PEIMS: PES00000, PES00001, PES00002, PES00003

Prerequisite: Parental permission slips and completed physical form

Note: Athletic courses are open to any student who wishes to participate and meets the UIL standards of age and number of years in high school. Once athletic tryouts are held, students who do not make the team may be moved to an alternate course.

<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 I [2501]

Note: Not a PE Substitute

Placement: 9-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N

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.

Health & Physical Education Continued

LIFETIME FITNESS AND WELLNESS PURSUITS [2831]

Placement: 9-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: N

PEIMS: PES00051

Prerequisite: None

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

The Lifetime Fitness and Wellness Pursuits course offers current approaches for the foundation of personal fitness, physical literacy, lifetime wellness, and healthy living. Students in Lifetime Fitness and Wellness Pursuits will apply the knowledge and skills to demonstrate mastery of the concepts needed to achieve lifetime wellness. Students will participate in a variety of physical activities for attaining personal fitness and lifetime wellness.

SKILL-BASED LIFETIME ACTIVITIES [2832]

Placement: 9-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: N

PEIMS: PES00056

Prerequisite: Recommend Lifetime Fitness and Wellness Pursuits

The Skill-Based Lifetime Activities course offers students the opportunity to demonstrate mastery in basic sport skills, basic sport knowledge, and health and fitness principles. Students will experience opportunities that promote physical literacy and lifetime wellness.

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

Placement: 9-12 Credits: 1 each Course Level: Basic Counted in GPA/Rank: N

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 Course Level: Basic Counted in GPA/Rank: N

PEIMS: PES00000, PES00001, PES00002, PES00003

Prerequisite: Parental permission slips and completed physical form

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 Course Level: Basic Counted in GPA/Rank: N

PEIMS: PES00013, PES00001, PES00002, PES00003

Prerequisite: Designated as member of 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.

TEAM SPORTS OFFICIATING [2840]

Note: Not a PE Substitute

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

PEIMS: N1160012

Prerequisite: None

Students will learn rules and regulations of selected team sports, developing skills in communication, decision-making, and conflict management, which are needed to officiate team sport competitions. They will work with coaches, players, other officials, and parents. The expectation is that students will have the ability to officiate at various levels and manage responsibilities that come with the role.

Career and Technical Education (CTE)

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 in Agriculture Food and Natural Resource Courses are expected to develop a supervised agriculture experience program. These experiences can include things like a research project, animal project, or an internship. Animal projects are completed through the FFA program.

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

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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.

SMALL ANIMAL MANAGEMENT [7562]

Placement: 10-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13002500

Prerequisite: Recommend a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster; Vet Med

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.

ADVANCED ANIMAL SCIENCE [7952] CC, AC

Placement: 12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 13000700

Prerequisite: Biology and Chemistry (or IPC); Algebra I, Geometry, and either Small Animal Management, Equine Science, or Livestock Production.

Recommend Veterinary Medical App

Note: Qualifies as a 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.

Career and Technical Education (CTE) Continued

ADVANCED PLANT AND SOIL SCIENCE [7969] CC, AC

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 13002100

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

Note: Qualifies as a 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, AC

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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.

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

Placement: 12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

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.

Architecture and Construction

PRINCIPLES OF ARCHITECTURE [7520]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13004210

Prerequisite: None

This course provides an overview of 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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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, AC

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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 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, and the reading of electrical drawings, schematics, and specifications.

ELECTRICAL TECHNOLOGY II [7668] CC, AC

Placement: 11-12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

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.

PRACTICUM IN CONSTRUCTION ELECTRICAL TECHNOLOGY [7669]

Placement: 12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13005250

Prerequisite: Electrical Technology II

In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework.

ARCHITECTURAL DESIGN I [6139] CC

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13004600

Prerequisites: Algebra I and English I; Recommend Geometry, Prin of Architecture, and Prin of Construction

Architectural design includes the knowledge of 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 Course Level: Regular Counted in GPA/Rank: N

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.

Career and Technical Education (CTE) Continued

PRACTICUM IN ARCHITECTURAL DESIGN [6141] CC, AC

Placement: 12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

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.

Arts, A/V Technology and Communications

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

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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.

COMMERCIAL PHOTOGRAPHY I [6013] CC

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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.

DIGITAL ART AND ANIMATION [3129]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03580500

Prerequisite: 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.

FASHION DESIGN [7513]

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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.

Career and Technical Education (CTE) Continued

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

Placement: 12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

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.

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

Placement: 10-12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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.

Career and Technical Education (CTE) Continued

VIDEO GAME PROGRAMMING [6080] CC

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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.

ADVANCED VIDEO GAME PROGRAMMING [6640] CC, AC

Placement: 12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

PEIMS: N1300995

Prerequisite: Video Game Programming

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.

DIGITAL AUDIO TECHNOLOGY I [6163] CC

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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.

PRACTICUM IN DIGITAL AUDIO [6625] CC

Placement: 12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

PEIMS: N1300996

Prerequisite: Digital Audio Tech II

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.

Business, Management and Administration

PRINCIPLES OF BUSINESS, MARKETING AND FINANCE [7519]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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.

Career and Technical Education (CTE) Continued

GLOBAL BUSINESS [6184] CC

Placement: 10-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N

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.

HUMAN RESOURCE MANAGEMENT [6185] CC, AC

Placement: 10-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N

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.

BUSINESS MANAGEMENT [6128] CC, AC

Placement: 12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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. Students 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.

PROFESSIONAL COMMUNICATIONS [7526]

Placement: 9-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N

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.

VIRTUAL BUSINESS [6187] CC

Placement: 10-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N

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.

Education and Training

PRINCIPLES OF EDUCATION AND TRAINING [7982]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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.

Career and Technical Education (CTE) Continued

INSTRUCTIONAL PRACTICES IN EDUCATION AND TRAINING DC [8933] CC, AC CTC: EDUC1301 & EDUC 2301

Placement: 11-12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 with 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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13016700

Prerequisite: Accounting I

Note: Qualifies as a 3rd math credit.

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] AC

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13016500

Prerequisite: Recommend Prin of Business, Marketing and Finance

Students will describe and abide by laws and regulations 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.

Career and Technical Education (CTE) Continued

BANKING AND FINANCIAL SERVICES [7980]

Placement: 10-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N
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 Course Level: Regular Counted in GPA/Rank: Y
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.

FINANCIAL MATHEMATICS [3575] CC

Placement: 10-12 Credit: 1 Course Level: Regular Counted in GPA/Rank: Y
PEIMS: 13018000

Prerequisite: Algebra I

Note: Qualifies as a 3rd 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 Course Level: Regular Counted in GPA/Rank: N
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 Course Level: Regular Counted in GPA/Rank: N
PEIMS: 13020400

Prerequisite: One credit in biology and at least one credit in a course from the health science career cluster.

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 [6197] CC

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N
PEIMS: 13020950

Prerequisite: Biology and Chemistry, and at least one credit in a Level 2 or higher course from the health science career cluster.

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.

Career and Technical Education (CTE) Continued

MEDICAL TERMINOLOGY [6186]

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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 career in health science 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.

PRACTICUM IN HEALTH SCIENCE II (CMA) [6590] CC, AC

Placement: 12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 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 SCI I-DENTAL ASSISTANT/EXTENDED PRACTICUM IN HEALTH SCI-DENTAL ASSISTANT [6551] CC, AC

Placement: 12 Credits: 3 Course Level: Regular Counted in GPA/Rank: N

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 including fingerprinting 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 Course Level: Regular Counted in GPA/Rank: N

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- PATIENT CARE TECH (PCT) [6200]

Placement: 12 Credits: 3 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13020500

Prerequisite: Health Science Theory and Biology

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 Patient Care Technician, you will provide basic patient care — bathing, feeding, catheter care, etc., acquire; distribute and administer patient care supplies; perform safety checks and ensure cleanliness in patient rooms; accommodate the special needs of patients; accordingly, obtain EKG readings and monitor vital signs; perform phlebotomy procedures. The Patient Care Technician 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 I- PHARMACY TECHNICIAN [6201] CC, AC

Placement: 12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13020500

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 including fingerprinting 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.

Career and Technical Education (CTE) Continued

PRACTICUM IN HEALTH SCIENCE II- PHLEBOTOMY [6550] CC, AC

Placement: 12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N
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.

PATHOPHYSIOLOGY-HNRS [6135] CC, AC

Placement: 11-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y
PEIMS: 13020800

Prerequisite: : One credit in biology, one in chemistry, and at least one credit in a Level 2 or higher course from the health science career cluster.

Note: Qualifies as a science credit.

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.

ANATOMY AND PHYSIOLOGY-HNRS [7653] HS & CC, AC

Placement: 11-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y
PEIMS: 13020600

Prerequisites: Biology and a one credit in chemistry, Integrated Physics and Chemistry, or physics. Recommended Prerequisite: a course from the Health Science Career Cluster.

Note: Qualifies as a 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.

Hospitality and Tourism

PRINCIPLES OF HOSPITALITY & TOURISM (CTC) [6120]

Placement: 11-12 Credits: 1 Course Level: DC College Credits: CHEF 1301, HAMG1321 6 hrs
PEIMS: 13022200 Counted in GPA/Rank: N

Prerequisites: Requires acceptance to CTC

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.

CULINARY ARTS (CTC) [6121]

Placement: 11-12 Credits: 2 Course Level: DC College Credits: CHEF1305, CHEF 1302 6 hrs
PEIMS: 13022600 Counted in GPA/Rank: N

Prerequisites: Requires acceptance to CTC

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 Course Level: DC College Credits: PSTR 1301, PSTR 1302 6 hrs
PEIMS: 13022700 Counted in GPA/Rank: N

Prerequisite: Culinary Arts

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.

Career and Technical Education (CTE) Continued

PRACTICUM IN CULINARY ARTS II (CTC) [6123] AC

Placement: 12 Credits: 2 Course Level: DC

PEIMS: 13022710

Prerequisite: Culinary Arts

College Credits: HAMG 2301, RSTO 1321

6 hrs

Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 13023000

Prerequisite: One credit in Biology, and one credit in chemistry, and at least one credit in a Level 2 or higher course in Hospitality and Tourism.

Note: Qualifies as a science credit.

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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.

COUNSELING AND MENTAL HEALTH [6137]

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13024600

Prerequisite: Recommend Principles of Human Services

In Counseling and Mental Health, students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

DOLLARS AND SENSE [8561]

Placement: 10-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N

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.

LIFETIME NUTRITION AND WELLNESS [7602]

Placement: 10-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N

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.

Career and Technical Education (CTE) Continued

INTERPERSONAL STUDIES [7599]

Placement: 11-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N
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/ COSMETOLOGY I LAB [7629] CC

Placement: 11-12 Credits: 3 Course Level: Regular Counted in GPA/Rank: N
PEIMS: 13025210
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 [6189] CC

Placement: 12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N
PEIMS: 13025300
Prerequisite: Cosmetology I

Note: Cosmetology 6189 and Principles of Cosmetology Design & Color Theory must be taken concurrently.

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. A 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.

PRINCIPLES OF COSMETOLOGY DESIGN & COLOR THEORY [6190] CC

Note: Cosmetology 6189 and Principles of Cosmetology Design & Color Theory must be taken concurrently.

Placement: 12 Credits: 1 PEIMS: 13025050 Prerequisite: Recommend Principles of Human Services

In this course, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Students will attain academic skills and knowledge as well as technical knowledge and skills related to cosmetology design and color theory. Students will develop knowledge and skills regarding various cosmetology design elements such as form, lines, texture, structure and illusion or depth as they relate to the art of cosmetology. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the TDLR requirements for licensure upon passing the state examination.

Information Technology

PRINCIPLES OF INFORMATION TECHNOLOGY [7610]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N
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 Course Level: Regular Counted in GPA/Rank: N
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.

Career and Technical Education (CTE) Continued

COMPUTER MAINTENANCE/COMPUTER MAINTENANCE LAB [6629] CC

Placement: 10-12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N
PEIMS: 13027310

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.

NETWORKING [6056] CC

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N
PEIMS: 13027400

Prerequisite: Recommend Principles of Information Technology, Computer Maintenance/Computer Maintenance Lab

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 of INFORMATION TECHNOLOGY [6059] CC, AC

Placement: 12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N
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.

WEB DESIGN [3128]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N
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 search 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.

Law, Public Safety, Corrections and Security

PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTION, AND SECURITY [6192]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N
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 Course Level: Regular Counted in GPA/Rank: N
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 Course Level: Regular Counted in GPA/Rank: N
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.

Career and Technical Education (CTE) Continued

COURT SYSTEMS & PRACTICES [7524]

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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.

CORRECTIONAL SERVICES [7523] AC

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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] AC / PROJECT BASED RESEARCH-FIREFIGHTER [6191] Fire Academy

Placement: 11-12 Credits: 2, 1 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 13029500

Prerequisite: One credit in biology, one credit in chemistry, integrated physics and chemistry, or physics.

Note: Qualifies as a 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.

Career and Technical Education (CTE) Continued

Manufacturing

WELDING I [7521] CC

Placement: 10-12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13032400

Prerequisite: Welding I; Recommend Algebra I or Geometry

The curriculum has been enhanced to match college level courses. 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.

PRACTICUM IN MANUFACTURING-WELDING [6129] CC, AC

Placement: 12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

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. The 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 Course Level: Regular Counted in GPA/Rank: N

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, AC

Placement: 9-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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.

Career and Technical Education (CTE) Continued

FASHION MARKETING [7516] CC

Placement: 10-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13034300

Prerequisites: Recommend 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 Course Level: Regular Counted in GPA/Rank: N

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, AC

Placement: 10-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13034800

Prerequisites: Recommend Prin of Business, Marketing & Finance

Through the courses 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 a 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.

Science, Technology, Engineering, and Mathematics

PRINCIPLES OF APPLIED ENGINEERING [6569]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

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.

FUNDAMENTALS IN COMPUTER SCIENCE [3132]

COMPUTER SCIENCE I [7400]

COMPUTER SCIENCE II [3130] AC

COMPUTER SCIENCE III [3131] AC

Placement: 9-12 Credits: 1 each Course Level: Regular

PEIMS: 03580140, 03580200, 03580300, 03580350

Prerequisite: None

Prerequisite or Corequisite: Algebra I

Prerequisite: Algebra I; Comp Science I or AP Computer Sci Principles

Prerequisite: Comp Science II or AP Comp Science

Counted in GPA/Rank: N

NOTE: Students can meet state graduation requirements for LOTE after successful completion of two levels of Computer Science I, II, III, or AP Computer Science A.

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.

Career and Technical Education (CTE) Continued

AP COMPUTER SCIENCE A [74041 & 74042] AC

AP COMPUTER SCIENCE A- MATH [74041] AC

Placement: 11-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: Y
PEIMS: A3580110

AP COMPUTER SCIENCE A-LOTE [74042] AC

Placement: 11-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: N
PEIMS: A3580120

Prerequisite: Recommend Computer Science I or Algebra II

Note: All students enrolled are expected to take the AP exam aligned with this course.

Corequisite: AP Computer Science A [74041] and AP Computer Science [74042] must be taken concurrently.

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.

AP COMPUTER SCIENCE PRINCIPLES [7409]

Placement: 9-12 Credits: 1 Course Level: Advanced Counted in GPA/Rank: N
PEIMS: A3580300

Prerequisite: Algebra I

Note: All students enrolled are expected to take the AP exam aligned with this course.

In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. Students will develop effective communication and collaboration skills by working individually and collaboratively to solve problems and will discuss and write about the impacts these solutions could have on their community, society, and the world. This course is designed to prepare students to take the Advanced Placement Computer Science Principles test in the spring.

MOBILE APPLICATION DEVELOPMENT [3137] *STEM Academy

Placement: 9-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N
PEIMS: 03580390

Prerequisite: Algebra I

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.

ROBOTICS I [7552]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N
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-HNRS [6588] CC, AC *STEM Academy

Placement: 10-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y
PEIMS: 13037050

Prerequisite: Robotics I

Note: Qualifies as a 3rd math credit.

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]

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y
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.

Career and Technical Education (CTE) Continued

ENGINEERING SCIENCE-HNRS [6502] AC

Placement: 10-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y
PEIMS: 13037500

Prerequisites: Algebra I and Biology, and at least one credit in a course from the science, technology, engineering, and mathematics career cluster.

Note: Qualifies as a science credit.

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 Course Level: Regular Counted in GPA/Rank: Y
PEIMS: 13036400

Prerequisite: one credit in biology. Recommended prerequisites: Chemistry and Principles of Bioscience.

Note: Qualifies as a 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 Course Level: Regular Counted in GPA/Rank: N
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.

DIGITAL ELECTRONICS-HNRS [5203] AC

Placement: 9-12 Credits: 1 Course Level: HNRS Counted in GPA/Rank: Y
PEIMS: 13037600

Note: Qualifies as a 3rd math credit.

Prerequisite: Algebra I and Geometry

Digital Electronics is a course of study in digital logic. Students will study the application of electronic logic to the solution of problems. Using Electronics Workbench (EWB), the industry standard, students will test and analyze simple and complex digital circuitry. Students will design circuits, using EWB, export their designs to a printed circuit auto routing program that generates printed circuit boards and construct the design using chips and other components.

ENGINEERING DESIGN AND PROBLEM SOLVING [7967] AC

Placement: 11-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: Y
PEIMS: 13037300

Prerequisite: Algebra I and Geometry; and at least one credit in a level 2 or higher course in the science, technology, engineering, and mathematics career cluster.

Note: Qualifies as a 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] AC *STEM Academy

Placement: 10-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N
PEIMS: 13036500

Prerequisite: Algebra I; and at least one credit in a course from the science, technology, engineering, and mathematics career cluster.

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.

ENGINEERING DESIGN AND PRESENTATION II [6580] AC *STEM Academy

Placement: 11-12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13036600

Prerequisite: Principles of Applied Engineering or Eng Design and Presentation I and Algebra I and Geometry

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 MANUFACTURING– ROBOTICS [6620] CC, AC *STEM Academy

Placement: 12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13033000

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: Y

PEIMS: 13037100

Prerequisite: 1 Science Credit and Algebra I

Note: Qualifies as a science credit.

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.

Transportation, Distribution and Logistics

PRINCIPLES OF TRANSPORTATION SYSTEMS [6169]

Placement: 9-12 Credits: 1 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13039250

Prerequisite: None

Students will gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This includes the history, laws and regulations, and common practices used in the logistics of warehousing and transportation systems. Students will apply knowledge and skills in the application, design, and production of technology as it relates to the transportation, distribution and logistics industries.

AUTOMOTIVE TECHNOLOGY I-MAINTENANCE & LIGHT REPAIR [6083] CC, AC

Placement: 10-12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

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 the 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 Course Level: Regular Counted in GPA/Rank: N

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.

Career and Technical Education (CTE) Continued

PRACTICUM IN TRANSPORTATION SYSTEMS-AUTOMOTIVE TECHNOLOGY [6063] CC, AC

Placement: 12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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: 10-12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 13039900

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 paint and refinishing.

PRACTICUM IN TRANSPORTATION SYSTEMS – COLLISION REPAIR & REFINISHING [6182] CC, AC

Placement: 12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

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 Development

CAREER PREPARATION I [7947] CC, AC

Placement: 11-12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 12701300

Prerequisite: None

CAREER PREPARATION I [7778] CC, AC

Placement: 11-12 Credits: 3 Course Level: Regular Counted in GPA/Rank: N

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.

requires 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 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 12701400

Prerequisite: Career Prep I

CAREER PREPARATION II [7779] CC, AC

Placement: 12 Credits: 3 Course Level: Regular Counted in GPA/Rank: N

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 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 a 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 I to ROTC IV years.

JUNIOR RESERVE OFFICERS TRAINING ROTC I [4051]

Placement: 9-12 Credits: 1 Course Level: Basic Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 03160200

Prerequisite: ROTC I, Acceptable standard of conduct

ROTC II is designed to teach ways to achieve a healthy lifestyle 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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N

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 Course Level: Regular Counted in GPA/Rank: N
PEIMS: N1290001

Prerequisite: Placement in AVID program, agreement to enroll in rigorous courses.

ADVANCEMENT VIA INDIVIDUAL DETERMINATION II-IV -HNRS [1022, 1023, 1024]

Placement: 10-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N
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

LEADWORTHY THE COURSE [3304]

Placement: 9-12 Credits: 0.5 Course Level: Regular Counted in GPA/Rank: N
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.

Path

PATH COLLEGE CAREER I – IV [6130, 6131, 6132, 6133]

Placement: 9-12 Credits: 1 each Course Level: Regular Counted in GPA/Rank: N
PEIMS: N1290051, N1290052, N1290053, N1290054

Prerequisite: None

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.

Gifted and Talented

GIFTED AND TALENTED INTERDISCIPLINARY STUDIES/MENTOR SEMINAR (HNRS) [9021]

GT INTERDISCIPLINARY STUDIES/MENTOR SEMINAR II (HNRS) [9022]

GT INDEPENDENT STUDY MENTORSHIP III (HNRS) [9023]

GT INDEPENDENT STUDY MENTORSHIP IV (HNRS) [9024]

Placement: 9-12 Credits: 1 each Course Level: HNRS Counted in GPA/Rank: N
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 can 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.

Pathways Academic Campus

The campus will offer various schedules 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 school year
- behind on credits
- acceptable discipline record from sending campus
- extenuating circumstances exist

Pathways Academic Campus is both an 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
College Prep Eng [1350]	CP110100	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
College Prep Math [3589]	CP111200	1

Science

Biology [4700]	03010200	1
IPC [4707]	03060201	1
Chemistry [4703]	03040000	1
Physics [4704]	03050000	1
Environmental Science [4701]	03020000	1
Earth Systems [4720]		1
Astronomy [4706]	03060100	1
Aquatic Science [4702]	03030000	1

Anatomy and Physiology [7653]

Health and Physical Education

Health I [2501]	03810100	0.5
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PE

Lifetime Fitness [2831]	PES00051	1
PE Skill-Based [2832]	PES00056	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

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
African American St [5490]	03380085	1

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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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-II [*5913, *5914]

Placement: 9-12 Credits: 1 each PEIMS: *85000PR1, *85000PR2

Course Level: Basic Counted in GPA/Rank: N

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-II [*5842, *5843]

Placement: 9-12 Credits: 1 each PEIMS: *85000TR1, *85000TR2

Course Level: Basic Counted in GPA/Rank: N

These courses support 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) 1-2 [*4425, *4426] or [*4625, *4626]

Placement: 9-12 Credits: 2 each PEIMS: *85000VI1, *85000VI2, Course Level: Basic Counted in GPA/Rank: N

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 Course Level: Basic Counted in GPA/Rank: N

This course will provide instruction in general employability skills. Employability skills are skills 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.

CAREER PREP I & II [4685, 4686]

Placement: 11-12 Credits: 2 Course Level: Regular Counted in GPA/Rank: N

PEIMS: 12701300

Prerequisite: There is no prerequisite for Career Prep I. Career Prep II can only be taken after Career Prep I has been successfully completed.

ACTIVITIES OF DAILY LIVING – MAKING CONNECTIONS AND PEER ASSIST (I-IV [5803, 5806, 5809, 5812]

Placement: 9-12 Credits: 1 each PEIMS: N1290332-N1290333, N1290334-N1290335, N1290203-N1290204, *85000DL4

Course Level: Basic Counted in GPA/Rank: N

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.

NAVIGATING LIFE [5924]

Placement: 9-12 Credits: 1 PEIMS: N1270153 Course Level: Basic Counted in GPA/Rank: N

Prerequisite: ARD or 504 Committee

The purpose of this course is to provide the necessary information, resources, and opportunities that will empower students who are deaf or hard of hearing to effectively apply information and skills learned in educational, home, and community settings to facilitate achievement in secondary and postsecondary environments. Areas to be addressed include audiology, hearing health, assistive technology, available support services and accommodations, communication, self-determination and advocacy, and Deaf culture. Hearing students who are interested in working in fields related to deafness, such as audiology, deaf education, interpreting, or speech and language pathology may also benefit from this course.

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.

CBVI CREW AM/CBVI CREW PM [*4469, *4470] or [*4669, *4670]

Placement: 12 Credits: 3 each PEIMS:*850000VI7, *85000VI8 Course Level: Basic Counted in GPA/Rank: N

This course provides training to students in a variety of work settings to prepare the student for future career and employability. The training process involves interest, values, beliefs, strengths and weaknesses in relation to the demand and other characteristics of the work environment.

CBVI CREW II AM/CBVI CREW II PM [*4472, *4473] or [*4672, *4673]

Placement: 12 Credits: 3 each PEIMS:*850000VI5, *85000VI6 Course Level: Basic Counted in GPA/Rank: N

This course provides training to students in a variety of work settings to prepare the student for future career and employability. The training process involves interest, values, beliefs, strengths and weaknesses in relation to the demand and other characteristics of the work environment.

18+ OCCUPATIONAL PREP AM/ 18+ OCCUPATIONAL PREP PM [*4474, *4475] or [*4674, *4675]

Placement: 12 Credits: 3 each PEIMS:*850000TR4, *85000TR5 Course Level: Basic Counted in GPA/Rank: N

This course provides training to students in a variety of social settings, work preparation, and interaction with caregivers/community members to prepare students for their next steps after high school. The training process involves interest, values, beliefs, strengths and weaknesses in relation to the demand and other characteristics in the community.

18+ OCCUPATIONAL PREP II AM/ 18+ OCCUPATIONAL PREP II PM [*4476, *4477] or [*4676, *4677]

Placement: 12 Credits: 3 each PEIMS:*850000TR6, *85000TR7 Course Level: Basic Counted in GPA/Rank: N

This course provides training to students in a variety of social settings, work preparation, and interaction with caregivers/community members to prepare students for their next steps after high school. The training process involves interest, values, beliefs, strengths and weaknesses in relation to the demand and other characteristics in the community.

Dual Credit

These courses are taken through Central Texas Community College.

Dual Credit Memorandum of Understanding KISD Dual Credit Crosswalk								
College Course	College Credit	High School Course	High School Credit	High School Course Code	PEIMS	Course level	Counted in GPA/Rank	
ENGL- 1301	3	English III A	0.5	1196A	03220300	Advanced	Y	
ENGL -1302	3	English III B	0.5	1196B	03220300	Advanced	Y	ENGL 1301 with a "C" or higher
ENGL -2322	3	English IV A	0.5	1190A	03220400	Advanced	Y	ENGL 1301 & 1302 with a "C" or higher
ENGL- 2327	3	Ind St Eng-American Lit I DC	0.5	1342	03221800	Advanced	Y	ENGL 1301 & 1302 with a "C" or higher
ENGL - 2328	3	Ind St Eng-American Lit II DC	0.5	1343	03221810	Advanced	Y	ENGL 1301 & 1302 with a "C" or higher
SPCH - 1315	3	Communication Applications	0.5	6322	03241400	Advanced	Y	
SPCH - 1321	3	Communication Applications	0.5	6326	03241400	Advanced	Y	
HIST - 1301	3	US History A	0.5	5351A	03340100	Advanced	Y	
HIST - 1302	3	US History B	0.5	5351B	03340100	Advanced	Y	
GOVT 2305	3	United States Govt	0.5	5347	03330100	Advanced	Y	
GOVT 2306	3	Special Topics in Social Studies II	0.5	5463	03380022	Advanced	Y	
ECON 2301	3	Economics of Free Enterprise	0.5	5342	03310300	Advanced	Y	
PSYC-2301	3	Psychology	0.5	5455	03350100	Advanced	Y	
PSYC-2314	3	Special Topics in Social Studies I	0.5	5466	03380002	Advanced	Y	
SOCI-1301	3	Sociology	0.5	5456	03370100	Advanced	Y	
MATH-1314	3	Independent Study Math Coll Alg	1	3565	03102500	Advanced	Y	Geometry and Algebra II
MATH-1414	4	Independent Study Math Coll Alg	1	3564	03102500	Advanced	Y	Geometry and Algebra II
MATH-2412	4	Independent Study in Math Pre-Cal	0.5	3562	03102501	Advanced	Y	MATH 1414 with a "C" or better
MATH-1342	3	Ind St in Math 3 - Elem Stat Methods	0.5	3570	03102501	Advanced	Y	Geometry and Algebra II
BIOL 1406	4	Scientific Research and Des Biology	0.5	4831A	13037210	Advanced	Y	Biology, Chemistry, IPC or Physics
BIOL-1407	4	Scientific Research and Des Biology	0.5	4831B	13037210	Advanced	Y	Biology, Chemistry, IPC or Physics
BIOL-2401	4	Anatomy and Physiology	0.5	7665A	13020600	Advanced	Y	Biology and a 2nd Science credit
BIOL-2402	4	Anatomy and Physiology	0.5	7665B	13020600	Advanced	Y	Biology and a 2nd Science credit
BCIS-1305	3	Fundamentals of Computer Science	0.5	3135	03580140	Advanced	N	
HUMA-1315	3	Art I, Art Appreciation	1	1338	03500110	Advanced	N	
EDUC -1301	3	Instruct Pract DC	1	8933A	13014400	Advanced	N	
EDUC -2301	3	Instruct Pract DC	1	8933B	13014400	Advanced	N	EDUC 2301
For Pre-Nursing Students Only:								
HPRS-2300	3	Pharmacology	1	6195	13020950	Advanced	N	

Dual Credit Culinary								
College Course	College Hours	High School Course	High School Course Code	High School Credit	PEIMS	Course Level	Counted in GPA/Rank	Prerequisites
CHEF 1301	3	Prins of Hospitality and Tourism	6120A	0.5	13022200	Regular	N	
HAMG 1321	3	Prins of Hospitality and Tourism	6120B	0.5	13022200	Regular	N	
CHEF 1305	3	Culinary Arts	6121A	1	13022600	Regular	N	
CHEF 1302	3	Culinary Arts	6121B	1	13022600	Regular	N	CHEF 1301
PSTR 1301	3	Practicum in Culinary Arts	6122A	1	13022700	Regular	N	
PSTR 1302	3	Practicum in Culinary Arts	6122B	1	13022700	Regular	N	PSTR 1301
HAMG 2301	3	Practicum in Culinary Arts II	6123A	1	13022710	Regular	N	
RSTO 1321	3	Practicum in Culinary Arts II	6123B	1	13022710	Regular	N	

Dual Credit STEM

STEM Program Dual Credit Course Offerings								
College Course	College Credit	High School Course	HS Credit	High School Course Code	PEIMS	Course Level	Counted in GPA/Rank	Required Prerequisites
ENGL- 1301	3	English III A	0.5	1196A	03220300	Advanced	Y	
ENGL -1302	3	English III B	0.5	1196B	03220300	Advanced	Y	ENGL 1301 with a "C" or higher
ENGL -2322	3	English IV A	0.5	1190A	03220400	Advanced	Y	ENGL 1301 & 1302 with a "C" or higher
SPCH - 1315	3	Communication Applications	0.5	6322	03241400	Advanced	Y	ENGL 1301 & 1302 with a "C" or higher
ENGL-2327	3	Ind St Eng-American Lit I DC	0.5	1342	03221800	Advanced	Y	ENGL 1301 & 1302 with a "C" or higher
ENGL-2328	3	Ind St Eng-American Lit II DC	0.5	1343	03221810	Advanced	Y	ENGL 1301 & 1302 with a "C" or higher
SPCH - 1321	3	Communication Applications	0.5	6326	03241400	Advanced	Y	
HIST - 1301	3	US History A	0.5	5351A	03340100	Advanced	Y	
HIST - 1302	3	US History B	0.5	5351B	03340100	Advanced	Y	
GOVT 2305	3	United States Govt	0.5	5347	03330100	Advanced	Y	
*GOVT 2306	3	Special Topics in Social Studies II	0.5	5463	03380022	Advanced	Y	
ECON 2301	3	Economics of Free Enterprise	0.5	5342	03310300	Advanced	Y	
PSYC-2301	3	Psychology	0.5	5455	03350100	Advanced	Y	
PSYC-2315	3	Sp Tops in SS I - Psych of Adj	0.5	5485	03380002	Advanced	Y	
SOCI-1301	3	Sociology	0.5	5456	03370100	Advanced	Y	
MATH- 1314	3	Independent study in Math College Alg	1	3565	03102500	Advanced	Y	Geometry and Algebra II
MATH-1414	4	Independent Study Math College Alg	1	3564	03102500	Advanced	Y	Geometry and Algebra II
MATH-2412	4	Independent Study in Math Pre-Calculus DC	0.5	3562	03102501	Advanced	Y	MATH 1414 with a "C" or better
MATH-1342	3	Ind St in Math 3 - Elem Stat Methods DC	0.5	3570	03102501	Advanced	Y	Geometry and Algebra II
MATH-2320	3	Ind St in Math 3- Differential Equations	0.5	3582	03102502	Advanced	Y	Geometry and Algebra II
MATH 2413	4	Independent Study Math 2 Calculus I DC	0.5	3577	03102501	Advanced	Y	MATH 2412 with a "C" or better
MATH-2414	4	Independent Study Math 2 Calculus II DC	0.5	3578	03102502	Advanced	Y	MATH 2413 with a "C" or better
MATH-2415	4	Independent Study in Math 3 Calculus III DC	0.5	3579	03102502	Advanced	Y	MATH 2414 with a "C" or better
MATH-1350	3	Ind St Math/Math for Teach I	0.5	3587	03102501	Advanced	Y	MATH 1414 with a "C" or better
MATH-1351	3	Ind St Math/Math for Teach II	0.5	3588	03102501	Advanced	Y	MATH 1414 with a "C" or better
BIOL 1406	4	Scientific Research and Design Biology DC	0.5	4831A	13037210	Advanced	Y	Biology, Chemistry, IPC or Physics
BIOL-1407	4	Scientific Research and Design Biology DC	0.5	4831B	13037210	Advanced	Y	Biology, Chemistry, IPC or Physics
BIOL-1408	4	Scientific Research and Design Biology DC	0.5	4837A	13037210	Advanced	Y	Biology, Chemistry, IPC or Physics
BIOL-1409	4	Scientific Research and Design Biology DC	0.5	4837B	13037210	Advanced	Y	Biology, Chemistry, IPC or Physics

STEM Program Dual Credit Course Offerings Continued...

BIOL-1411	4	SRD III - Botany	0.5	6613	13037220	Advanced	Y	Biology, Chemistry, IPC or Physics
BIOL-1413	4	SRD III - Zoology	0.5	6595	13037220	Advanced	Y	Biology, Chemistry, IPC or Physics
BIOL-2401	4	Anatomy and Physiology	0.5	7665A	13020600	Advanced	Y	Biology and a 2nd Science credit
BIOL-2402	4	Anatomy and Physiology	0.5	7665B	13020600	Advanced	Y	Biology and a 2nd Science credit
BIOL-2420	4	SRD III - Microbiology	0.5	6553	13037220	Advanced	Y	Biology, Chemistry, IPC or Physics
BIOL-2421	4	SRD III - Microbiology	0.5	6596	13037220	Advanced	Y	CHEM 1411 & (BIOL 1406 & BIOL 1407) OR (BIOL 1411 & BIOL 1413)
CHEM-1411	4	Scientific Research and Design Chemistry DC	0.5	4832A	13037200	Advanced	Y	MATH 1314/1414 with a grade of "C" or better
CHEM-1412	4	Scientific Research and Design Chemistry DC	0.5	4832B	13037200	Advanced	Y	CHEM 1411
CHEM-2423	4	SRD-Org Chemistry	0.5	6597	13037210	Advanced	Y	CHEM 1411 and CHEM 1412
CHEM-2425	4	SRD - Org Chemistry II	0.5	6598	13037210	Advanced	Y	CHEM 2423
ENVR-1401	4	SRD II - Environmental Science	0.5	6594	13037210	Advanced	Y	Biology, Chemistry, IPC or Physics
ENVR-1401	4	SRD III - Environmental Science	0.5	4838	13037220	Advanced	Y	Biology, Chemistry, IPC or Physics
GEOL-1403	4	SRD III - Physical Geology	0.5	4839	13037220	Advanced	Y	Biology, Chemistry, IPC or Physics
GEOL-1403	4	SRD II - Physical Geology	0.5	6600	13037210	Advanced	Y	Biology, Chemistry, IPC or Physics
PHYS-1401	4	Scientific Research and Design I - Physics I	0.5	6606A	13037200	Advanced	Y	MATH 1314/1414 and (MATH 1316 OR MATH 2412)
PHYS-1402	4	Scientific Research and Design I - Physics I	0.5	6606B	13037200	Advanced	Y	PHYS 1401
PHYS-1415	4	SRD III - Physical Science	0.5	6614	13037220	Advanced	Y	Biology, Chemistry, IPC or Physics
PHYS-2425	4	SRD III - Physics I	0.5	6601	13037220	Advanced	Y	MATH 2413
PHYS-2426	4	SRD III - Physics II	0.5	6602	13037220	Advanced	Y	PHYS 2425 and MATH 2414
BCIS-1305	3	Fundamentals of Computer Science	0.5	3135	03580140	Advanced	N	
COSC-1301	3	Computer Science I	0.5	3133	03580200	Advanced	N	
COSC-1315	3	Computer Science I	0.5	3134	03580200	Advanced	N	
COSC-1336	3	Computer Science II	0.5	3138	03580300	Advanced	N	COSC 1315
COSC-1337	3	Computer Science II	0.5	3139	03580300	Advanced	N	COSC 1336
COSC-2325	3	Computer Science III	0.5	3140	03580350	Advanced	N	COSC 1336
COSC-2336	3	Computer Science III	0.5	3141	03580350	Advanced	N	COSC 1337
EDUC 1100	1	Local credit--Non-scheduled class	0.5	9014	*85000ED1	Advanced	N	
ENGR-1201	3	SRD I - Introduction to Engineering	0.5	6584	13037200	Advanced	Y	MATH 1414 or equivalent with a grade of "C" or above
ENGR-2301	3	SRD I - Engineering Mechanics - Stats	0.5	6585	13037200	Advanced	Y	MATH 2413 with a grade of C or above
ENGR-2302	3	SRD II - Engineering Mechanics - Dyn	0.5	6592	13037210	Advanced	Y	ENGR 2301 with a grade of C or above
ENGR-2305	3	SRD II - Electrical Circuits	0.5	6593	13037210	Advanced	Y	MATH 2414 with a grade of C or above
ENGR-2332	3	Local-Credit Course - Science	0.5	6599	84800SRD	Advanced	Y	ENGR 2301 with a grade of C or above
HUMA-1315	3	Art I, Art Appreciation	1	1338	03500110	Advanced	N	
EDUC-1301	3	Instruct Pract DC	0.5	8933A	13014400	Advanced	N	

STEM Program Dual Credit Course Offerings Continued...								
EDUC-2301	3	Instruct Pract DC	0.5	8933B	13014400	Advanced	N	EDUC-1301 with a C or better
BIOL - 1322	3	Lifetime Nutrition DC	0.5	8900	13024500	Advanced	N	
Note: Dual Enrollment Courses are offered on high school campuses through Central Texas College (CTC). For information on the requirements for these courses, please contact your high school's guidance office.								
*This course does not meet the government requirement for graduation.								

Dual Credit ECHS

Early College High School Dual Credit Course Offerings

College Course	College Credit	High School Course	HS Credit	High School Course Code	PEIMS	Course Level	Counted in GPA/Rank	Required Prerequisites
ENGL- 1301	3	English III A	0.5	1196A	03220300	Advanced	Y	
ENGL -1302	3	English III B	0.5	1196B	03220300	Advanced	Y	ENGL 1301 with a "C" or higher
ENGL -2322	3	English IV A	0.5	1190A	03220400	Advanced	Y	ENGL 1301 & 1302 with a "C" or higher
ENGL- 2327	3	Ind St Eng-American Lit I DC	0.5	1342	03221800	Advanced	Y	ENGL 1301 & 1302 with a "C" or higher
ENGL - 2328	3	Ind St Eng-American Lit II DC	0.5	1343	03221810	Advanced	Y	ENGL 1301 & 1302 with a "C" or higher
PHIL - 1301	3	Independent Study Eng-Philosophy	0.5	1339	03221800	Advanced	Y	
PHIL - 2306	3	Independent Study in Eng-Ethics	0.5	1341	03221810	Advanced	Y	
PHIL - 1304	3	Independent Study in English-World Relig	0.5	1340	03221820	Advanced	Y	
SPCH - 1315	3	Communication Applications	0.5	6322	03241400	Advanced	Y	
SPCH - 1321	3	Communication Applications	0.5	6326	03241400	Advanced	Y	
HIST - 1301	3	US History A	0.5	5351A	03340100	Advanced	Y	
HIST - 1302	3	US History B	0.5	5351B	03340100	Advanced	Y	
GOVT 2305	3	United States Govt	0.5	5347	03330100	Advanced	Y	
*GOVT 2306	3	Special Topics in Social Studies II	0.5	5472	03380022	Advanced	Y	
ECON 2301	3	Economics of Free Enterprise	0.5	5342	03310300	Advanced	Y	
PSYC-2301	3	Psychology	0.5	5455	03350100	Advanced	Y	
PSYC-2314	3	Special Top SS-Psychology	0.5	5466	03380002	Advanced	Y	
SOCI-1301	3	Sociology	0.5	5456	03370100	Advanced	Y	
SOCI-2301	3	Special Top SS-Marriage & Fam	0.5	5483	03380032	Advanced	Y	
SOCI-2319	3	Spec Top SS- Minority St	0.5	5484	03380032	Advanced	Y	
PHIL-2321	3	Spec Top SS- Religion	0.5	5481	03380032	Advanced	Y	
PSYC 2308	3	Spec Top- Child Psychology	0.5	5482	03380032	Advanced	Y	
GEOG-1301	3	Spec Top SS - Phys Geo	0.5	5474	03380042	Advanced	Y	
GEOG-1302	3	Special Topics SS- Human Geo	0.5	5475	03380042	Advanced	Y	
GEOG-1303	3	World Geography A	0.5	5476	03320100	Advanced	Y	
HIST-2301	3	SS Adv Stud-Texas History	0.5	5477	03380001	Advanced	Y	
HIST-2381	3	SS Adv Stud-African American Studies	0.5	5480	03380001	Advanced	Y	
ANTH 2351	3	SS Adv Stud-Anthropology	0.5	5465	03380001	Advanced	Y	
HIST-2311	3	SS Adv Stud-Western Civ I	0.5	5478	03380031	Advanced	Y	
HIST-2312	3	SS Adv Stud-Western Civ II	0.5	5479	03380041	Advanced	Y	
MATH-1314	3	Independent Study Math College Algebra DC	1	3565	03102500	Advanced	Y	Geometry and Algebra II
MATH-1414	4	Independent Study Math College Algebra DC	1	3564	03102500	Advanced	Y	Geometry and Algebra II
MATH-2412	4	Independent Study Math Pre-Calculus	0.5	3562	03102501	Advanced	Y	MATH 1414 with a "C" or better
MATH-1342	3	Ind St in Math 3 - Elem Stat Methods DC	0.5	3570	03102501	Advanced	Y	Geometry and Algebra II
MATH 2413	4	Independent Study Math 2 Calculus I DC	0.5	3577	03102501	Advanced	Y	MATH 2412 with a "C" or better
MATH 1350	3	Ind St Math/Math for Teach I	0.5	3587	03102501	Advanced	Y	MATH 1314 with a "C" or better
MATH 1351	3	Ind St Math/Math for Teach II	0.5	3588	03102501	Advanced	Y	MATH 1314 with a "C" or better
BIOL-1406	4	Scientific Research and Design Biology DC	0.5	4831A	13037210	Advanced	Y	Biology, Chemistry, IPC or Physics
BIOL-1407	4	Scientific Research and Design Biology DC	0.5	4831B	13037210	Advanced	Y	Biology, Chemistry, IPC or Physics
BIOL-1408	4	Scientific Research and Design Biology DC	0.5	4837A	13037210	Advanced	Y	Biology, Chemistry, IPC or Physics
BIOL-1409	4	Scientific Research and Design Biology DC	0.5	4837B	13037210	Advanced	Y	Biology, Chemistry, IPC or Physics
BIOL-2401	4	Anatomy and Physiology	0.5	7665A	13020600	Advanced	Y	Biology and a 2nd Science credit
BIOL-2402	4	Anatomy and Physiology	0.5	7665B	13020600	Advanced	Y	Biology and a 2nd Science credit

BIOL-2420	4	SRD III - Microbiology Non	0.5	6553	13037220	Advanced	Y	Biology, Chemistry, IPC or Physics
ENVR-1401	4	SRD II - Environmental	0.5	6594	13037210	Advanced	Y	Biology, Chemistry, IPC or Physics
GEOL-1403	4	SRD II - Physical Geology	0.5	6600	13037210	Advanced	Y	Biology, Chemistry, IPC or Physics
GEOL-1404	4	SRD II - Historical Geology	0.5	6554	13037210	Advanced	Y	GEOL 1403
SPAN - 1411	4	Spanish II DC	0.5	8922A	03440200	Advanced	N	Spanish I
SPAN - 1412	4	Spanish II DC	0.5	8922B	03440200	Advanced	N	Spanish I, SPAN 1411 with a "C" or better
GERM -1411	4	German II DC	0.5	8924A	03420200	Advanced	N	German I
GERM -1412	4	German II DC	0.5	8924B	03420200	Advanced	N	German I, GERM 1411 with a "C" or better
HUMA -1315	3	Art I, Art Appreciation	1	1338	03500110	Advanced	N	
DRAM-1310	3	Theatre Arts	0.5	2405A	03250100	Advanced	N	
DRAM-2361	3	Theatre Arts	0.5	2405B	03250100	Advanced	N	
MUSI-1306	3	Music Studies, Music appreciation	0.5	2407A	03155600	Advanced	N	
MUSI-1307	3	Music Studies, Music appreciation	0.5	2407B	03155600	Advanced	N	
BCIS-1305	3	Fundamentals of Computer Science	0.5	3135	03580140	Advanced	N	
COSC-1301	3	Computer Science I	0.5	3133	03580200	Advanced	N	
COSC-1315	3	Computer Science I	0.5	3134	03580200	Advanced	N	
CRIJ - 1301	3	Principles of Law	1	8907	13029200	Advanced	N	
CRIJ - 1306	3	Law Enforcement I	0.5	8910A	13029300	Advanced	N	
CRIJ - 1310	3	Law Enforcement I	0.5	8910B	13029300	Advanced	N	
CRIJ - 2313	3	Law Enforcement II	0.5	8911A	13029400	Advanced	N	
CRIJ - 2328	3	Law Enforcement II	0.5	8911B	13029400	Advanced	N	
ACCT - 2301	3	Accounting I	0.5	8906A	13016600	Advanced	N	
ACCT - 2302	3	Accounting I	0.5	8906B	13016600	Advanced	N	ACCT 2301
BUSI-1301	3	Business Management	0.5	6109	13012100	Advanced	N	
DRAM-2366	3	Visual Media Analysis and Production	0.5	1111	03221700	Advanced	Y	
EDUC-1100	1	Local Credit--Nonscheduled Course	0.5	9014	85000ED1	Advanced	N	
GOVT - 2304	3	Political Science I	1	8914	13018300	Advanced	N	
MSMG - 1201	2	ROTC I DC	0.5	8912A	03160100	Advanced	N	
MSMG - 1203	2	ROTC I DC	0.5	8912B	03160100	Advanced	N	
MSMG - 1310	3	ROTC II DC	0.5	8913A	03160200	Advanced	N	MSMG 1203
MSMG - 1312	3	ROTC II DC	0.5	8913B	03160200	Advanced	N	
EDUC -1301	3	Instruct Pract DC	1	8933A	13014400	Advanced	N	
EDUC -2301	3	Instruct Pract DC	1	8933B	13014400	Advanced	N	EDUC 1301 with a C or Better
SPCH - 1318	3	Interpersonal Studies	0.5	8915	13024400	Advanced	N	
SPCH - 2341	3	Oral Interp	0.5	8916	03240200	Advanced	Y	

Dual Credit Temple Bioscience Institute (TBI)

Dual Credit Memorandum of Understanding Dual Credit Crosswalk --Temple College TBI						
Course Rubric	College Course Title Offered for Dual Credit	College Credit	High School Credit	PEIMS	High School Course Code	High School Course
Year 1						
ENGL - 1301	Composition I	3	0.5	03220300	1104IA	English III A
ENGL - 1302	Composition II	3	0.5	03220300	1104IB	English III B
MATH - 1314	College Algebra	3	1	03102500	3564I	Ind St-ALG
MATH - 2412	Pre-Calculus Math	4	0.5	03102501	3354IB	Ind St-PCAL
BIOL - 1406	Biology for Science Majors I	4	0.5	13037210	7787IA	Biology DC
BIOL - 1407	Biology for Science Majors II	4	0.5	13037210	7787IB	Biology DC
HIST - 1301	United States History I	3	0.5	03340100	5303IA	US History A
HIST - 1302	United States History II	3	0.5	03340100	5303IB	US History B
Year 2						
ENGL - 2322	British Literature I	3	0.5	03220400	1105IA	English IV A
ENGL - 2323	British Literature II	3	0.5	03220400	1105IB	English IV B
CHEM - 1411	General Chemistry I	4	0.5	13037200	7726IA	Chemistry I
CHEM - 1412	General Chemistry II	4	0.5	13037200	7726IB	Chemistry II
ECON - 2301	Principles of Macroeconomics	3	0.5	03310300	5342I	Economics
GOVT - 2305	Federal Government	3	0.5	03330100	5347I	United States Government
Second Year Science Courses -- Students take two semesters of the following courses:						
BIOL - 2416	Genetics	4	0.5	13037220	4829I	Genetics
BIOL - 2401	Anatomy and Physiology I	4	0.5	13020600	7625IA	Anatomy and Physiology
BIOL - 2402	Anatomy and Physiology II	4	0.5	13020600	7625IB	Anatomy and Physiology
Second Year Math Courses -- Students take two semesters of the following courses:						
MATH 1442	Elementary Statistical Methods	4	0.5	03102501	3520IB	Ind Study- STAT
MATH 2413	Calculus I	4	0.5	03102502	3520IA	Ind Study - CALC
MATH 2414	Calculus II	4	0.5	03102502	3358IB	Calc II CA
Other Courses:						
HUMA 1315	Fine Arts Appreciation	3	1	03500110	1338I	Art I, Art Appreciation
GOVT 2306	Texas Government	3	0.5	03380022	5463I	Special Topics-SS II
SPCH 1315	Speech	3	0.5	03241400	6322I	Communication Application
COSC-1436	Computer Science II	4	0.5	03580300	3138I	Computer Science II
COSC-1437	Computer Science II	4	0.5	03580300	3139I	Computer Science II
COSC-2436	Computer Science III	4	0.5	03580350	3141I	COSC 1437
	TBI Academic Lab	0	0		3408IA/3408IB	TBI Academic Lab

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 courses	4
Science – Biology & three additional science courses. One credit must be from IPC, Chemistry, Physics, or Principles of Technology	4
Social Studies – World Geography or World History, U.S. History, Government (0.5), and Economics (0.5)	3
Languages Other Than English (LOTE) – Any two levels of the same language	2
Physical Education	1
Fine Arts	1
Electives	7

TOTAL CREDITS 26

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 satisfying one of the following:

- *Completes 3 credits in the same language, other than English, 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 a LOTE with a score of at least 3 on an AP exam in a language other than English, at least a 4 on an IB exam in a language other than English 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/NMSQT® qualifies student as Commended Scholar or higher as part of NHRP or National Achievement Scholarship Program of the National Merit Scholarship Corporation OR
2. Earn a total score of at least a 442 on the ACT-Aspire™ OR
3. Earn a total score of at least 1350 SAT® OR
4. Earn a composite score of 29 (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.

*Students are required to fill out the FAFSA/TASFA or an Opt-out form.

Foundation HSP with Endorsement – 26 credits

(Students entering high school 2014-2015 and after)

STAAR/EOC: English I ☐ English II ☐ Algebra I ☐ Biology ☐ U S History ☐

*Students are required to fill out the FAFSA/TASFA or an Opt-out form.

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 ☐
Fine Arts – 1 credit
 _____ ☐ ☐

LOTE – 2 credits

_____ ☐ ☐
 _____ ☐ ☐
Physical Ed – 1 credit
 _____ ☐
 _____ ☐

Electives – 5 credits

_____ ☐ ☐
 _____ ☐ ☐
 _____ ☐ ☐
 _____ ☐ ☐
 _____ ☐ ☐
 _____ ☐ ☐

Additional Credits for Endorsement – 2 credits

_____ ☐ ☐ _____ ☐ ☐

Endorsements

STEM ☐
 BUSINESS & INDUSTRY ☐
 ARTS & HUMANITIES ☐
 PUBLIC SERVICE ☐
 MULTIDISCIPLINARY ☐

Performance Acknowledgments

DUAL CREDIT ☐
 BILINGUALISM & LITERACY ☐
 AP or IB EXAM ☐
 OUTSTANDING PERFORMANCE ☐
 CERTIFICATE or LICENSE ☐

Distinguished Achievement

ENDORSEMENT ☐
 SCIENCE (4 credits) ☐
 MATH (4 credits including Algebra) ☐



Killeen Independent School District

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