



**Copperas Cove High School
Course Descriptions
2024-2025**

Course Offerings

Copperas Cove High School offers courses based on TEA compliance, sufficient funding, instructor availability, and/or student enrollment. If the course does not make, it is due to one or more of these factors.

College Course Offerings

We make every effort to provide accurate information on the college courses listed in this course description guide. Central Texas College, McMurray University, Tarleton State University, and Ranger College course information listed in their course catalogs will take precedence over any college course information that is listed in the CCHS Course Description Guide should there be a conflict.

All dual credit, early college, and dual enrollment courses must be approved by the Director of Dual Enrollment. Any courses not paid for by the first week of each semester may result in the course being dropped and a schedule change. Failure to pay for any course will result in students not being able to enroll in any additional dual credit, early college, or dual enrollment courses.

Nondiscrimination Notification

Copperas Cove High School does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Director of Student Services, Stacie Golden, 408 S. Main Street, Copperas Cove, TX 76522, (254) 547-1227 ext. 11601, goldens@ccisd.com.

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ENGLISH LANGUAGE ARTS

AP English Language and Composition (English 3)

- Recommended Grade: 11 Credit: 1 Tier 4 **Course #: 7025**
- Prerequisite: English 2, Students should be able to read and comprehend college-level texts and write grammatically correct, complete sentences.
- The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text— from a range of disciplines and historical periods.

AP English Literature and Composition (English 4)

- Recommended Grade: 12 Credit: 1 Tier 4 **Course #: 7035**
- Prerequisite: English 3, Students should be able to read and comprehend college-level texts and write grammatically correct, complete sentences.
- The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

College Preparatory Course - English Language Arts

- Recommended Grade: 12 Credit: 1 Tier 2 **Course #: 7050**
- Prerequisite: English 3
- This course is designed, in collaboration with Central Texas College, for students who plan on pursuing post-secondary education and have not demonstrated college readiness in English Language Arts. The goal of this course is to help students prepare for success in entry-level college coursework. Students who take this course will not need to take additional coursework at Central Texas College prior to taking Composition 1301 and 1302.

Creative Writing

- Recommended Grade: 12 Credit: 1 Tier 2 **Course #: 7170**
- Prerequisite: English 3
- This course counts for English 4
- General Education, Special Education
- A rigorous composition course, which asks high school students to demonstrate their skill in such forms of writing as fictional writing, short stories, poetry, and drama. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course can analyze and discuss published and unpublished pieces of writing, develop peer and self-assessments for effective writing, and set their own goals as writers.

English 1

- Recommended Grade: 9 Credit: 1 Tier 2 or 3 **Course #: 7000**
- General Education, Special Education, Honors, Speakers of Other Languages

- This course will include a comprehensive study of grammar, composition, and vocabulary as well as an in-depth study of the major literary genres: media literacy, poetry, literary nonfiction, drama, and fiction with a thorough study of at least one modern novel. The course will specifically explore narrative and expository writing strategies as well as increase the students' ability to revise and edit their essays and those of their peers. All students must have an adequate score on the EOC exam to graduate.

English 2

- Recommended Grade: 10 Credit: 1 Tier 2 or 3 **Course #: 7010**
- Prerequisite: English 1
- General Education, Special Education, Honors, Speakers of Other Languages
- The emphasis in this course is both reading and writing. Students will be exposed to a range of literary genres including short stories, novels, memoirs, poems, drama, and fictional and non-fiction informational texts. The expectation is that students participate in all class readings as well as perform independent reading. Through these readings, students will learn literary devices such as simile, metaphor, allusion, and hyperbole, which enhance the reading experience and reveal the deeper meanings and themes within a text. Vocabulary is emphasized to develop students' fluency with words and text. Students are also expected to fully engage in the writing process, learn the traits of good writing, and practice a variety of writing forms such as persuasive and expository essays, open-ended responses, and scriptwriting. Students will learn and practice their skills in syntax, grammar, and vocabulary. All students must have an adequate score on the EOC exam to graduate.

English 3

- Recommended Grade: 11 Credit: 1 Tier 2 **Course #: 7020**
- Prerequisite: English 2
- General Education, Special Education
- This course will emphasize reading through the exposure to a wide variety of American literature and other genre texts, the composing process, including an intense review of English grammar and usage, and vocabulary study intended to prepare students for the PSAT and SAT exams. Students will be expected to advance their English skills by building on prior knowledge acquired in English I and II. Advanced composition will be emphasized, culminating in a research project. Students will also enhance their ability to speak effectively and listen actively through group discussions, presentations, and cooperative learning activities.

English 4

- Recommended Grade: 12 Credit: 1 Tier 2 **Course #: 7030**
- Prerequisite: English 3
- General Education, Special Education
- The course is an integrated approach to the study of British literature and the English language and to the development of skills of oral and written communication. Reading/analytical skills and the writing process will be stressed. Students will produce personal and analytical essays of 500 words or more and research papers of 1000 words or more.

ESOL 1

- Recommended Grades: 9-12 Credit: 1 **Course #: 7130**
- Prerequisite: Oral Language Proficiency Test, LPAC placement
- This course may count as English 1
- This course is for students identified with Limited English Proficiency (LEP), have parental approval, and are recommended by the Language Proficiency Assessment Committee (LPAC).

selections themselves as outstanding expressions of the English literary heritage. The course employs critical reading, thinking, and writing skills in the analysis of a wide variety of selected readings.

British Literature II

- Recommended Grade: 12 Credit: 0.5 Tier 4
- CTC Course: ENGL 2323
- TCCN: ENGL 2323
- Prerequisite: Acceptance to CTC, ENGL 1301 and 1302, or equivalent with a grade of "C" or above
- Corequisite: 2322 must be taken first semester
- 2323: A survey of English literature from the early Romantic writers to the Twentieth Century. Although careful attention is given to the historical, social, and intellectual developments that gave rise to the literature. The emphasis of the course is on individual selections themselves as outstanding expressions of the English literary heritage. The course employs critical reading, thinking, and writing skills in the analysis of a wide variety of selected readings.

Business and Professional Communication

- Recommended Grade: 19-12 Credit: 0.5 Tier 4
- CTC Course: SPCH 1321
- TCCN: SPCH 1321
- Prerequisite: Acceptance to CTC
- Counts as speech credit
- Theories and skills of speech communication as applied to business and professional situations. Include participating in an interview, preparing a resume and cover letter, engaging in problem-solving discussions, and delivering public speeches.

Composition I

- Recommended Grade: 11-12 Credit: 0.5 Tier 4
- CTC Course: ENGL 1301
- TCCN: ENGL 1301
- Prerequisite: Acceptance to CTC, Pass TSIA Reading/Writing
- Corequisite: 1302 must be taken second semester
- A study of the principles and techniques of written compositions including sentence structure, paragraph development, and paper organization. Also stresses the development of critical thinking as it applies to the textual analysis of expository text. Instruction will address essay writing, reading novels, and vocabulary development. American Literature from the 19th and 20th century will be studied.

Composition II

- Recommended Grade: 11-12 Credit: 0.5 Tier 4
- CTC Course: ENGL 1302
- TCCN: ENGL 1302
- Prerequisite: Acceptance to CTC, Pass TSIA Reading/Writing
- Corequisite: 1301 must be taken first semester
- A continuation of ENGL 1301, emphasizing in more depth the principles and techniques of written compositions. Focus of composition is on the development of critical thinking as it relates to the textual analysis of literary genres: the short story, poetry, drama, and the novel. American Literature from the 19th and 20th century will be studied. A formal research paper is required. Partial state credit may not be awarded for this course.

Creative Writing

- Recommended Grade: 11-12 Credit: 0.5 Tier 4
- CTC Course: ENGL 2307
- TCCN: ENGL 2307
- Prerequisite: Acceptance to CTC, Pass TSIA Reading/Writing, ENGL 1301 or equivalent, with grade of "C" or above
- Corequisite: 1301 must be taken first semester
- This course provides practical experience in the techniques of imaginative writing. It is designed to engage students in practical criticism and contemporary trends while emphasizing the development of creative skills. Student will receive guidance and instruction in the skills and craft necessary to construct successful fiction (short stories) and poetry.

Public Speaking

- Recommended Grade: 9-12 Credit: 0.5 Tier 4
- CTC Course: SPCH 1315
- TCCN: SPCH 1315
- Prerequisite: Acceptance to CTC
- Counts as speech credit or English credit (0.5)
- This course encompasses both theory and practice of communicating with others and includes research, composition, organization, and delivery of speeches for various purposes and occasions.

MATHEMATICS

Advanced Quantitative Reasoning

- Recommended Grade: 12 Credit: 1 Tier 2 **Course #: 7370**
- Prerequisite: Algebra 1, Geometry, Algebra 2
- May count as 4th math
- AQR sets out to answer the question “When will I use this?” In this course, students will be taking knowledge learned in their three previous years of math and applying it to real world scenarios. Most of the concepts used in AQR have been learned previously, but there will still be some concepts that are unfamiliar. Most of the content will be taught in a “hands-on” manner. Students will be completing many minor and major projects throughout this course. Concepts that will be covered in this course are graphing, personal finance, estimation, data and statistics, research applications, and geometry.

Algebra 1

- Recommended Grade: 9 Credit: 1 Tier 2 or 3 **Course #: 7300**
- Prerequisite: None
- General Education, Special Education, Honors
- Students will gain a basic understanding of number operations, quantitative reasoning, patterns, relationships, and algebraic thinking, geometric measurement and probability and statistics, symbolic reasoning, function concepts, and relationships between equations and functions. This course relates the real-world to math using lab activities. Technology will include graphing calculators. Partial state credit may not be awarded for this course. The student must earn 1 full credit to receive any state credit. All students must have an adequate score on the EOC exam to graduate.

Algebra 2

- Recommended Grade: 10-12 Credit: 1 Tier 2 or 3 **Course #: 7330**
- Prerequisite: Algebra 1 (Geometry Recommended)
- General Education, Special Education, Dual Credit, Early College, OnRamps
- Algebra II must be completed to be distinguished, be considered for the top 10% automatic admission and to receive the STEM endorsement. A study of functions, equations, and inequalities, including linear, absolute value, quadratic, square root, polynomial, rational, radical, exponential, and logarithmic functions.

Algebraic Reasoning

- Recommended Grade: 11-12 Credit: 1 Tier 2 **Course #: 7360**
- Prerequisite: Algebra 1, Geometry
- General Education, Special Education
- In Algebraic Reasoning, students will build on the knowledge and skills for mathematics in KG-Grade 8 and Algebra 1, continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses. 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.

AP Calculus AB

- Recommended Grade: 11-12 Credit: 1 Tier 4 **Course #: 7355**
- Prerequisite: Pre-Calculus or Dual Credit Pre-Calculus
- The student will be introduced to the concepts associated with the limits of a function, the derivative, the integral and applications of calculus to special functions.

AP Statistics

- Recommended Grade: 11-12 Credit: 1 Tier 4 **Course #: 7405**
- Prerequisite: Algebra 1, Geometry, Algebra II
- The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will be exposed to four broad conceptual themes: Exploring Data; Sampling and Experimentation; Anticipating Patterns, and Statistical Inference.

Calculus

- Recommended Grade 11-12 Credit: 1 Tier 3 **Course #: 7354**
- Prerequisite: Algebra 2, Pre-Calculus
- Students will extend their mathematical understanding beyond the Algebra II level in a specific area or areas of mathematics such as theory of equations, number theory, non-Euclidean geometry, linear algebra, advanced survey of mathematics, or history of mathematics.

College Preparatory Course - Mathematics

- Recommended Grade: 12 Credit: 1 Tier 2 **Course #: 7380**
- Prerequisite: Algebra 1, Geometry, Algebraic Reasoning
- This is a one semester course for a full Math credit.
- This course is designed, in collaboration with Central Texas College, for students in the 12th grade who have not demonstrated college readiness in mathematics. The goal of this course is to help students prepare for success in entry-level college coursework.

Geometry

- Recommended Grade: 9 Credit: 1 Tier 2 or 3 **Course #: 7310**
- Prerequisite: Algebra 1 (can be taken concurrently with Algebra 1)
- General Education, Special Education
- Topics include properties of geometric figures, deductive and inductive reasoning, congruent and similar triangles, parallel and perpendicular lines, circles, geometric solids, perimeters, areas, volumes, coordinate geometry and simple trigonometry. Partial state credit may not be awarded for this course.

Math Models with Applications

- Recommended Grade: 10-12 Credit: 1 Tier 2 **Course #: 7320**
- Prerequisite: Algebra 1, Geometry
- General Education, Special Education
- Students will continue to build on Algebra 1 and Geometry foundations as they expand their understanding through other mathematical experiences. Students will use mathematical methods and technology to solve real-life problems.

Precalculus

- Recommended Grade: 11-12 Credit: 1 Tier 3 **Course #: 7340**
- Prerequisite: Algebra 1, Geometry, Algebra 2
- Topics include understanding algebraic and polynomial functions, exponential and logarithmic functions, and conic sections. Students will also study applications of trigonometry,

trigonometric identities and equations, mathematical induction, and the concept of limits. In addition to content mastery, the course goals are to further develop students' problem solving and critical thinking skills. The difficulty level of the material increases significantly throughout the semester.

Mathematics – College Credit

Calculus I

- Recommended Grade: 12 Credit: 1 Tier 4
- CTC Course: MATH 2413
- TCCN: MATH 2413
- Prerequisite: Acceptance to CTC, Pass TSIA Math, Math 2412, or AP Calculus
- First course in calculus which emphasizes limits and continuity; the Fundamental Theorem of Calculus; derivatives and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule; the mean value theorem; rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions; and an application to calculation of areas.

Calculus II

- Recommended Grade: 12 Credit: 1 Tier 4
- CTC Course: MATH 2414
- TCCN: MATH 2414
- Prerequisite: Acceptance to CTC, Pass TSIA Math, Math 2413 with a grade of "C" or better
- Calculus II is a second course in calculus which emphasizes differentiation and integration techniques of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; and improper integrals.

Calculus III

- Recommended Grade: 12 Credit: 1 Tier 4
- CTC Course: MATH 2415
- TCCN: MATH 2415
- Prerequisite: Acceptance to CTC, Pass TSIA Math, Math 2414 with a grade of "C" or better
- Calculus III is a third course in calculus which emphasizes vectors and vector-valued functions; partial differentiation; Lagrange multiples; multiple integrals; Jacobians; and application of the line integral which includes Green's Theorem, the Divergence Theorem, the Divergence Theorem, and Stokes's Theorem.

College Algebra (non-STEM majors)

- Recommended Grade: 11-12 Credit: 0.5 Tier 4
- CTC Course: MATH 1314
- TCCN: MATH 1314
- Prerequisite: Acceptance to CTC, Pass TSIA Math
- First course in calculus which emphasizes limits and continuity; the Fundamental Theorem of Calculus; derivatives and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule; the mean value theorem; rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions; and an application to calculation of areas.

College Algebra (Calculus Path)

- Recommended Grade: 10-12 Credit: 0.5 Tier 4
- CTC Course: MATH 1414

- TCCN: MATH 1414
- Prerequisite: Acceptance to CTC, Pass TSIA Math
- A study of relations and functions, polynomial functions, and equations of degree higher than two, exponential and logarithmic functions and equations, matrices, and determinants, sequences and series, the binomial theorem, and mathematical induction. This course satisfies the mathematics requirement in most curricula and is the prerequisite for Pre-Calculus. Please check your degree plan to determine the status of this course in your program of study. This course is occupationally related and serves as preparation for careers in mathematics and engineering.

Contemporary Mathematics - Quantitative Reasoning (non-STEM majors)

- Recommended Grade: 10-12 Credit: 0.5 Tier 4
- CTC Course: MATH 1332
- TCCN: MATH 1332
- Prerequisite: Acceptance to CTC, Pass TSIA Math
- Topics include sets, logic, number theory, geometric concepts, consumer finance, and an introduction to probability and statistics.

Elementary Statistical Methods

- Recommended Grade: 11-12 Credit: 1 Tier 4
- CTC Course: MATH 1342
- TCCN: MATH 1342
- Prerequisite: Acceptance to CTC, Pass TSIA Math
- A study of relations and functions, polynomial functions, and equations of degree higher than two, exponential and logarithmic functions and equations, matrices, and determinants, sequences and series, the binomial theorem, and mathematical induction. This course satisfies the mathematics requirement in most curricula and is the prerequisite for Pre-Calculus. Please check your degree plan to determine the status of this course in your program of study. This course is occupationally related and serves as preparation for careers in mathematics and engineering.

Linear Algebra

- Recommended Grade: 12 Credit: 1 Tier 4
- CTC Course: MATH 2318
- TCCN: MATH 2318
- Prerequisite: Acceptance to CTC, Pass TSIA Math, Math 2414 with a grade of "C" or better
- Topics include finite dimensional vector spaces; linear transformations and matrices; quadric forms; and eigenvalues and eigenvectors.

Precalculus Math

- Recommended Grade: 11-12 Credit: 1 Tier 4
- CTC Course: MATH 2412
- TCCN: MATH 2412
- Prerequisite: Acceptance to CTC, MATH 1414
- Topics include applications of algebra and trigonometry to the study of elementary functions and their graphs including polynomial, rational, exponential, logarithmic, and trigonometric functions.

SCIENCE

AP Biology

- Recommended Grade: 11-12 Credit: 1 Tier 4 **Course #: 7505**
- Prerequisite: Biology, Chemistry (recommended)
- AP Biology is an advanced level course involving the study of biological principles and processes. Topics include organic and biochemistry, cell physiology, genetics, population biology, botany, plant physiology, adaptation, and behavior. Extensive laboratory work is required. Leads to the AP exam. Students will be required to take the AP exam and make a predetermined score to receive the weighted GPA.

AP Chemistry

- Recommended Grade: 10-12 Credit: 1 Tier 4 **Course #: 7515**
- Prerequisite: Algebra 2 and Honors Chemistry
- This course is an extension of Honors Chemistry and is designed for students entering the fields of engineering, science, and medicine. Students will be required to take the AP exam and make a predetermined score to receive the weighted GPA.

AP Environmental Science

- Recommended Grade: 11-12 Credit: 1 Tier 4 **Course #: 7555**
- Prerequisite: Biology AND IPC, Physics or Chemistry
- AP Environmental Science is designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

AP Physics 1: Algebra Based

- Recommended Grade: 11-12 Credit: 1 Tier 4 **Course #: 7535C1**
- Prerequisite: Chemistry and Algebra II
- This course is an algebra-based college level physics course and is designed to prepare students for the AP Physics 1 test. AP Physics 1 focuses on Newtonian Mechanics. Concepts include kinematics, dynamics, energy, momentum, oscillations, gravitation, basics of electricity and waves. Students will be required to take the AP exam and make a predetermined score to receive the weighted GPA.

AP Physics 2: Algebra Based

- Recommended Grade: 11-12 Credit: 1 Tier 4 **Course #: 7535C2**
- Prerequisite: AP Physics 1 or Physics
- This course is an algebra-based college level physics course and is designed to prepare students for the AP Physics 2 test. Concepts in AP Physics 2 include: fluid mechanics, thermal physics, electrostatics, electrical circuits, magnetism, optics. Students will be required to take the AP exam and make a predetermined score to receive the weighted GPA.

Aquatic Science

- Recommended Grade: 11-12 Credit: 1 Tier 2 **Course #: 7560**
- Prerequisite: Biology AND IPC, Physics or Chemistry
- Aquatic science is the study of the largest portion of the surface of the earth. This course studies the interaction of living and non-living components in freshwater and marine environments, including human impacts on aquatic systems. Thorough studies will be made of the physical, chemical, geological, and biological aspect of freshwater and marine habitats. Students will

conduct investigations and observations of aquatic environments in both the laboratory classroom and in field investigations. May select this course as a 4th science credit.

Biology

- Recommended Grade: 9 Credit: 1 Tier 2 **Course #: 7500**
- Prerequisite: None
- The first semester explores the universal nature of biology as a life science, scientific problem-solving techniques, classifying organisms into six kingdoms, diversity, homeostasis, and the cell. The second semester covers cellular reproduction, Mendelian genetics with application to human populations and evolution defined as change over time, ecology, and the impact of various organisms on the world. Dissections may include the earthworm, frog, shark, and/or fetal pig.

Chemistry

- Recommended Grade: 10-12 Credit: 1 Tier 2 **Course #: 7510**
- Prerequisite: Algebra 1
- Chemistry is a mathematically intensive science course designed to teach the fundamental concepts of chemistry and some of their applications. Topics include laboratory techniques, descriptive chemistry, stoichiometry, states of matter, gas laws, kinetics and equilibrium, acid base chemistry, oxidation reduction, electrochemistry, bonding, periodicity, atomic structure, and introductory nuclear chemistry.

Astronomy

- Recommended Grade: 12 Credit: 1 Tier 2 **Course #: 7550**
- Prerequisite: None
- May select course as 4th Science
- 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.

Environmental Systems

- Recommended Grade: 12 Credit: 1 Tier 2 **Course #: 7540**
- Prerequisite: Biology
- May count as a 4th science credit
- Environmental Systems is an interdisciplinary course in which students relate and apply concepts and principles from the physical and biological sciences to the environment. Topics include ecosystems, natural cycles, environmental change, natural resources, land, and water use and management, air quality management, waste management, food resources, and management of endangered species.

Integrated Physics & Chemistry

- Recommended Grade: 10-12 Credit: 1 Tier 2 **Course #: 7520**
- Prerequisite: Biology
- The fall semester is an introductory physics course covering motion, energy and work, heat, waves, and electricity. The spring semester is an introductory chemistry course covering atomic structure, physical and chemical changes, chemical bonding, and chemical reactions. This course must be taken before Chemistry and Physics.

Physics

- Recommended Grade: 11-12 Credit: 1 Tier 2 **Course #: 7530**
- Prerequisite: Algebra 1, Geometry and Biology
- Physics is a mathematically INTENSIVE science course designed to acquaint students with the fundamental physical laws of nature. Major topics of study include laws and equations of motion, determining resultants and components of forces, conservation of momentum and energy, gravity, waves, sound, light, electricity, and magnetism.

Science – College Credit

Anatomy & Physiology I

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: BIOL 2401 & BIOX 2401(lab)
- TCCN: BIOL 2401 (lecture + lab)
- Prerequisite: Acceptance to CTC, Pass TSIA Math/Reading/Writing
- Anatomy and Physiology I is the first part of a two-course sequence. It is a study of the structure and function of the human body including cells, tissues, and organs of the following systems: integumentary, skeletal, muscular, nervous, and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. Hands-on learning experiences will be provided through laboratory activities.

Anatomy & Physiology II

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: BIOL 2402 & Lab BIOX 2402
- TCCN: BIOL 2402 (lecture + lab)
- Prerequisite: Acceptance to CTC, BIOL 2401, BIOX 2401(lab)
- Anatomy and Physiology II is the second part of a two-course sequence. It is a study of the structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics). Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. Hands-on learning experiences will be provided through laboratory activities.

Biology for Non-Science Majors I

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: BIOL 1408 & BIOX 1408(lab)
- TCCN: BIOL 1408 (lecture + lab)
- Prerequisite: Acceptance to CTC
- This lecture and lab course provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

Biology for Non-Science Majors II

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: BIOL 1409 & BIOX 1409(lab)
- TCCN: BIOL 1409 (lecture + lab)
- Prerequisite: Acceptance to CTC
- This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Course objectives will be met in lecture and laboratory.

Biology for Science Majors I

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: BIOL 1406 & BIOX 1406(lab)
- TCCN: BIOL 1406 (lecture + lab)
- Prerequisite: Acceptance to CTC, Pass TSIA Math/Reading/Writing
- Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included. Course includes laboratory activities.

Biology for Science Majors II

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: BIOL 1407 & BIOX 1407(lab)
- TCCN: BIOL 1407 (lecture + lab)
- Prerequisite: Acceptance to CTC, Pass TSIA Math/Reading/Writing, BIOL 1406
- The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Course includes laboratory activities.

College Physics I

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: PHYS 1401 & PHYX 1401(lab)
- TCCN: PHYS 1401 (lecture + lab)
- Prerequisite: Acceptance to CTC, MATH 1314 and (MATH 1316 or MATH 2412)
- Fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; with emphasis on problem solving. Laboratory activities will reinforce concepts discussed in lecture.

College Physics II

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: PHYS 1402 & PHYX 1402(lab)
- TCCN: PHYS 1402 (lecture + lab)
- Prerequisite: Acceptance to CTC, PHYS 1401 & PHYX 1401(lab)
- Fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving. Laboratory activities will reinforce concepts discussed in lecture.

Environmental Science I

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: ENVR 1401 & ENVX 1401(lab)
- TCCN: ENVR 1401 (lecture + lab)
- Prerequisite: Acceptance to CTC, Pass TSIA Math
- A survey of the forces, including humans, that shape our physical and biologic environment, and how they affect life on Earth. Introduction to the science and policy of global and regional environmental issues, including pollution, climate change, and sustainability of land, water, and energy resources. Laboratory activities will reinforce concepts discussed in lecture.

General Chemistry I

- Recommended Grades: 10-12 Credit: 1 Tier 4
- CTC Course: CHEM 1411 & CHEX 1411 (lab)
- TCCN: CHEM 1411 (lecture + lab)
- Prerequisite: Acceptance to CTC, Pass TSIA Math, MATH 1314 with a grade of "C" or higher.
- High school chemistry is strongly recommended.
- The first of two courses covering the fundamental principles of chemistry for majors in the sciences, health sciences, and engineering. Topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry. Emphasis is placed on problem solving. Lab activities will reinforce concepts discussed in lecture.

General Chemistry II

- Recommended Grades: 10-12 Credit: 1 Tier 4
- CTC Course: CHEM 1412 & CHEX 1412 (lab)
- TCCN: CHEM 1412 (lecture + lab)
- Prerequisite: Acceptance to CTC, Pass TSIA Math, CHEM 1411
- The second of two courses covering the fundamental principles of chemistry for majors in the sciences, health sciences, and engineering. Topics include chemical equilibrium; phase diagrams and spectrometry; acid-base concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry. Emphasis is placed on problem solving. Lab activities will reinforce concepts discussed in lecture

Historical Geology

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: GEOL 1404 and GEOX 1404 (Lab)
- TCCN: GEOL 1404
- Prerequisite: Acceptance to CTC, GEOL 1403
- A comprehensive survey of the history of life and major events in the physical development of Earth as interpreted from rocks and fossils. Laboratory activities will introduce methods used by scientists to interpret the history of life and major events in the physical development of Earth from rocks and fossils.

Introductory Chemistry I

- Recommended Grades: 10-12 Credit: 1 Tier 4
- CTC Course: CHEM 1406 & CHEX 1406(lab)
- TCCN: CHEM 1406 (lecture + lab)
- Prerequisite: Acceptance to CTC, Pass TSIA Math
- This course is a survey of the fundamentals of general chemistry with applications from medicine, modern living, agriculture, and the environment. This course is designed for non-science majors who need a lab science credit, for nursing students seeking a B.S. degree or background for physiology, and also for students who have very little or no chemical background. Lab activities will reinforce concepts discussed in lecture.

Introductory Chemistry II

- Recommended Grades: 10-12 Credit: 1 Tier 4
- CTC Course: CHEM 1407 & CHEX 1407(lab)
- TCCN: CHEM 1407 (lecture + lab)
- Prerequisite: Acceptance to CTC, CHEM 1406 & CHEX 1406(lab)

- A survey of the fundamentals of organic and biochemistry for non-science majors or nursing students interested in the processes of life. Basic principles, nomenclature, principle reactions and methods of synthesis, and the major classes of physiologically important compounds are studied. Lab activities will reinforce concepts discussed in lecture.

Microbiology for Non-Science Majors

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: BIOL 2420 & BIOX 2420 (lab)
- TCCN: BIOL 2420 (lecture + lab)
- Prerequisite: Acceptance to CTC, Pass TSIA Math/Reading/Writing
- This course covers basic microbiology and immunology and is primarily directed at pre-nursing, pre-allied health, and no-science majors. It provides an introduction to historical concepts of the nature of microorganisms, microbial diversity, the importance of microorganisms and acellular agents in the biosphere, and their roles in human and animal diseases. Major topics include bacterial structure as well as growth, physiology, genetics, and biochemistry of microorganisms. Emphasis is on medical microbiology, infectious diseases, and public health. Basics of culture and identification of bacteria and microbial ecology will be covered in laboratory activities.

Physical Geology

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: GEOL 1403 and GEOX 1403 (Lab)
- TCCN: GEOL 1403
- Prerequisite: Acceptance to CTC
- Introduction to the study of the materials and processes that have modified and shaped the surface and interior of Earth over time. These processes are described by theories based on experimental data and geologic data gathered from field observations. Laboratory activities will cover methods used to collect and analyze earth science data.

University Physics I

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: PHYS 2425 & PHYX 2425(lab)
- TCCN: PHYS 1401 (lecture + lab)
- Prerequisite: Acceptance to CTC, MATH 2413
- Fundamental principles of physics, using calculus, for science, computer science, and engineering majors; the principles and applications of classical mechanics, including harmonic motion, physical systems and thermodynamics; and emphasis on problem solving. Laboratory activities will reinforce concepts discussed in lecture.

University Physics II

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: PHYS 2426 & PHYX 2426(lab)
- TCCN: PHYS 2426 (lecture + lab)
- Prerequisite: Acceptance to CTC, PHYS 2425 & PHYX 2425(lab)
- Principles of physics for science, computer science, and engineering majors, using calculus, involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics. Laboratory activities will reinforce concepts discussed in lecture.

SOCIAL STUDIES

African American Studies

- Recommended Grade: 9-12 Credit: 1 Tier 2 **Course #: 7800**
- Prerequisite: None
- **Elective Credit only (not factored into GPA)**
- In African American Studies, students learn about the history and cultural contributions of African Americans. This course is designed to assist students in understanding issues and events from multiple perspectives. This course develops an understanding of the historical roots of African American culture, especially as it pertains to social, economic, and political interactions within the broader context of United States history. It requires an analysis of important ideas, social and cultural values, beliefs, and traditions. Knowledge of past achievements provides citizens of the 21st century with a broader context within which to address the many issues facing the United States.

AP Human Geography (World Geography)

- Recommended Grade: 9-12 Credit: 1 Tier 4 **Course #: 7705**
- Prerequisite: None
- This course is designed to introduce students to the 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 examine human social organization and its environmental consequences. Methods and tools geographers use in their science practice will also be studied.

AP Macroeconomics

- Recommended Grade: 12 Credit: 0.5 Tier 4 **Course #: 7755**
- Recommended Prerequisite: 85+ in Honors or 90+ in regular social studies classes.
- This one semester course will delve into the workings of the Free Market System on a macro level. Students will study price level changes, the creation of money, monetary and fiscal policy, national accounts, consumption, theories of economic growth, and foreign economic policies. Students will be required to take the AP exam.

AP U.S. Government and Politics

- Recommended Grade: 12 Credit: 0.5 Tier 4 **Course #: 7735**
- Prerequisite: None, recommended: grades of 85+ in Honors or 90+ in regular social studies classes.
- This course involves an advanced study of the American system of government and its principles and concepts. It will be taught as a college American Government course. Consult the colleges of your choice concerning which AP credits they accept. Students will be required to take the AP exam and make a predetermined score to receive the weighted GPA

AP United States History

- Recommended Grade: 11 Credit: 1 Tier 4 **Course #: 7725**
- Prerequisite: None, recommended: grades of 85+ or higher in Honors social studies classes.
- This course is a rigorous college-level course designed to prepare students for success on the AP College Board exam. Students are expected to bring skills and information obtained in previous social studies courses and complete some summer reading assignments prior to entering the class. Numerous outside reading and writing assignments are required, as well as several projects for students to be successful on the AP U.S. History exam. The first semester focuses on the investigation of causes and effects that the social, political, and economic changes/challenges had on the American people from the time of the early settlers through World War I. The second semester focuses on the causes and effects that the social, political

and economic changes/challenges had on the American people from the 1920's to the present day. Students will be required to take the AP exam. The student must earn 1 full credit to receive any state credit.

AP World History

- Recommended Grade: 10-12 Credit: 1 Tier 4 **Course #: 7715**
- Prerequisite: None, recommended Honors World Geography
- AP World History focuses on developing students' abilities to think conceptually about world history from approximately 8000 BCE to the present and apply historical thinking skills as they learn about the past. Five themes of equal importance — focusing on the environment, cultures, state-building, economic systems, and social structures — provide areas of historical inquiry for investigation throughout the course. AP World History encompasses the history of the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania, with special focus on historical developments and processes that cross multiple regions. This course is a two-semester college level course designed to help students prepare for and to do well on the Advanced Placement exam. Students will be required to take the AP exam. The student must earn 1 full credit to receive any state credit.

Economics

- Recommended Grade: 12 Credit: 0.5 Tier 2 **Course #: 7750**
- Prerequisite: None
- This is a one semester course with an emphasis on the free enterprise system. A study will be made of the market system, national income, creation of money, the Federal Reserve System, fiscal and monetary policies, governmental regulations of business and the rights and responsibilities of the consumer in the marketplace.

Government

- Recommended Grade: 12 Credit: 0.5 Tier 2 **Course #: 7730**
- Prerequisite: None
- U.S. Government is a one semester study of the federal government, the U.S. Constitution, the Bill of Rights, the Constitutional Amendments, the individual rights and liberties, and the responsibilities of citizens to each other and to society. Current events will be emphasized.

Mexican American Studies

- Recommended Grade: 10-12 Credit: 1 Tier 2 **Course #: 7790**
- Prerequisite: None
- **Elective Credit only (not factored into GPA)**
- In Ethnic Studies: Mexican American Studies, an elective course, students learn about the history and cultural contributions of Mexican Americans. Students explore history and culture from an interdisciplinary perspective. The course emphasizes events in the 20th and 21st centuries, but students will also engage with events prior to the 20th century.

Personal Financial Literacy

- Recommended Grade: 11-12 Credit: 0.5 Tier 2 **Course #: 7820**
- Prerequisite: None
- Personal Financial Literacy is designed to be an interactive and research-based course. The course will teach students how to make sound, informed financial decisions that will allow them to lead financially secure lives and understand personal financial responsibility. The emphasis on this course will be about earning versus spending, saving and investing, credit versus borrowing, as well as insuring and protecting.

Psychology

- Recommended Grade: 10-12 Credit: 0.5 Tier 2 **Course #: 7770**
- Prerequisite: None
- Psychology is a one semester course that covers the basic principles of human nature and behavior. A research paper or project is required.

Sociology

- Recommended Grade: 11-12 Credit: 0.5 Tier 2 **Course #: 7780**
- Prerequisite: None
- Sociology is a one semester course that explores the trends and behavior of society in general. Included in the semester is an anthropological study of man from a biological and cultural point of view. Research papers or reports, or group projects are required.

United States History

- Recommended Grade: 11 Credit: 1 Tier 2 **Course #: 7720**
- Prerequisite: None
- The first semester surveys American History from 1865-1917, encompassing the post-Civil War era; the Industrial Revolution and its effect on farmers, laborers, and employers; basic government; the Spanish-American War and America's move from isolationism. The second semester surveys American History from 1917 to the present, encompassing World War I, the Great Depression, World War II, Korean Conflict, Vietnam Conflict, New Deal, Persian Gulf Crisis, war with Iraq and current issues.

World Geography

- Recommended Grade: 9 Credit: 1 Tier 2 **Course #: 7700**
- Prerequisite: None
- This course studies the physical and cultural environments of the planet, revolving around the five themes of Geography. Studies will include map skills, research techniques, and comprehensive projects.

World History

- Recommended Grade: 10 Credit: 1 Tier 2 **Course #: 7710**
- Prerequisite: None
- This is a two-semester survey course in world history. All cognitive levels will be utilized. Special emphasis will be placed on early world cultures, world religions, Greek and Roman cultures, the Medieval world, the cultures of Asia and Africa, and contemporary world history since 1776. Students will be expected to do some research, and some outside reading. Partial state credit may not be awarded for this course. The student must earn 1 full credit to receive any state credit.

Social Studies – College Credit

African American History I

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: HIST 2381
- TCCN: HIST 2381
- Prerequisite: Acceptance to CTC, Pass TSIA Reading/Writing
- A survey of the social, political, economic, cultural, and intellectual history of people of African descent in the United States from the Civil War/Reconstruction period to the present. African American History II examines segregation, disenfranchisement, civil rights, migrations, industrialization, world wars, the Harlem Renaissance and the conditions of African Americans in

the Great Depression, Cold War and post-Cold War eras. This course will enable students to understand African American history as an integral part of U.S. history.

Federal Government

- Recommended Grades: 12 Credit: 0.5 Tier 4
- CTC Course: GOVT 2305
- TCCN: GOVT 2305
- Prerequisite: Acceptance to CTC, Pass TSIA Reading
- Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties, and civil rights.

General Psychology

- Recommended Grades: 12 Credit: 0.5 Tier 4
- CTC Course: PSYC 2301
- TCCN: PSYC 2301
- Prerequisite: Acceptance to CTC, Pass TSIA Reading
- Survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.

Human Geography

- Recommended Grades: 9 Credit: 1 Tier 4
- CTC Course: GEOG 1302
- TCCN: GEOG 1302
- Prerequisite: Acceptance to CTC
- This course introduces students to fundamental concepts, skills, and practices of human geography. Place, space, and scale serve as a framework for understanding patterns of human experience. Topics for discussion may include globalization, population and migration, culture, diffusion, political and economic systems, language, religion, gender, and ethnicity.

Introduction to Ethics

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: PHIL 2306
- TCCN: N/A
- Prerequisite: Acceptance to CTC, TSIA Reading/Writing
- The systematic evaluation of classical and/or contemporary ethical theories concerning the good life, human conduct in society, morals, and standards of value.

Introduction to Philosophy

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: PHIL 1301
- TCCN: PHIL 1301
- Prerequisite: Acceptance to CTC, Pass TSIA Reading
- A study of major issues in philosophy and/or the work of major philosophical figures in philosophy. Topics in philosophy may include theories of reality, theories of knowledge, theories of value, and their practical applications.

Introduction to Sociology

- Recommended Grades: 11-12 Credit: 0.5 Tier 4
- CTC Course: SOCI 1301
- TCCN: SOCI 1301

- Prerequisite: Acceptance to CTC, Pass TSIA Reading
- The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ ethnicity, and deviance.

Introduction to World Religion

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: PHIL 1304
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- A comparative study of world religions, including but not limited to Hinduism, Buddhism, Judaism, Christianity, and Islam.

Minority Studies

- Recommended Grades: 10-12 Credit: 0.5 Tier 4
- CTC Course: SOCI 2319
- TCCN: SOCI 2319
- Prerequisite: Acceptance to CTC
- This course studies minority-majority group relations, addressing their historical, cultural, social, economic, and institutional development in the United States. Both sociological and social psychological levels of analysis will be employed to discuss issues including experiences of minority groups within the context of their cultural heritage and tradition, as well as that of the dominant culture. Core concepts to be examined include (but are not limited to) social inequality, dominance/subordination, prejudice, and discrimination. Particular minority groups discussed may include those based on poverty, race/ethnicity, gender, sexual orientation, age, disability, or religion.

Physical Geography

- Recommended Grades: 9 Credit: 0.5 Tier 4
- CTC Course: GEOG 1301
- TCCN: GEOG 1301
- Prerequisite: Acceptance to CTC
- This course introduces students to the processes that drive Earth's physical systems. Students will explore the relationships among these physical systems, with emphasis on weather and climate, water, ecosystems, geologic processes and landform development, and human interactions with the physical environment.

Principles of Macroeconomics

- Recommended Grades: 12 Credit: 0.5 Tier 4
- CTC Course: ECON 2301
- TCCN: ECON 2301
- Prerequisite: Acceptance to CTC, Pass TSIA Reading
- An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy.

Principles of Microeconomics

- Recommended Grades: 12 Credit: 0.5 Tier 4
- CTC Course: ECON 2302
- TCCN: ECON 2302
- Prerequisite: Acceptance to CTC, Pass TSIA Reading
- Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade.

Texas Government 2306

- Recommended Grades: 12 Credit: 0.5 Tier 4
- CTC Course: GOVT 2306
- TCCN: GOVT 2306
- Prerequisite: Acceptance to CTC, Pass TSIA Reading
- Origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas.

Texas History

- Recommended Grades: 11-12 Credit: 0.5 Tier 4
- CTC Course: HIST 2301
- TCCN: HIST 2301
- Prerequisite: Acceptance to CTC, Pass TSIA Reading/Writing
- A survey of the political, social, economic, cultural, and intellectual history of Texas from the pre-Columbian era to the present. Themes that may be addressed in Texas History include: Spanish colonization and Spanish Texas; Mexican Texas; the Republic of Texas; statehood and secession; oil, industrialization, and urbanization; civil rights; and modern Texas.

United States History I

- Recommended Grades: 11-12 Credit: 0.5 Tier 4
- CTC Course: HIST 1301
- TCCN: HIST 1301
- Prerequisite: Acceptance to CTC, Pass TSIA Reading/Writing
- A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government.

United States History II

- Recommended Grades: 11-12 Credit: 0.5 Tier 4
- CTC Course: HIST 1302
- TCCN: HIST 1302
- Prerequisite: Acceptance to CTC, Pass TSIA Reading/Writing
- A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War, and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

Western Civilization I

- Recommended Grades: 11-12 Credit: 0.5 Tier 4
- CTC Course: HIST 2311
- TCCN: HIST 2311
- Prerequisite: Acceptance to CTC, Pass TSIA Reading/Writing
- A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from human origins to the 17th century. Themes that should be addressed in Western Civilization I include the cultural legacies of Mesopotamia, Egypt, Greece, Rome, Byzantium, Islamic civilizations, and Europe through the Middle Ages, Renaissance, and Reformations.

Western Civilization II

- Recommended Grades: 11-12 Credit: 0.5 Tier 4
- CTC Course: HIST 2312
- TCCN: HIST 2312
- Prerequisite: Acceptance to CTC, Pass TSIA Reading/Writing
- A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from the 17th century to the modern era. Themes that should be addressed in Western Civilization II include absolutism and constitutionalism, growth of nation states, the Enlightenment, revolutions, classical liberalism, industrialization, imperialism, global conflict, the Cold War, and globalism.

World Regional Geography

- Recommended Grades: 9 Credit: 1 Tier 4
- CTC Course: GEOG 1303
- TCCN: GEOG 1303
- Prerequisite: Acceptance to CTC
- This course is an introduction to the world's major regions seen through their defining physical, social, cultural, political, and economic features. These regions are examined in terms of their physical and human characteristics and their interactions. The course emphasizes relations among regions on issues such as trade, economic development, conflict, and the role of regions in the globalization process.

CAREER AND TECHNICAL EDUCATION

Programs of Study

Agriculture, Food, and Natural Resources *Business & Industry Endorsement*

Principles of AFNR
#8400
(9-10, 1 credit)

Applied Agricultural
Engineering
Program of Study

Agricultural Mechanics
& Metal Technology
#8414
(10-12, 1 credit)

Agricultural Structures
Design & Fabrication
#8416
(11-12, 1 credit)

Practicum in AFNR
#8400P1
(11-12, 2 credits)

Agricultural Equipment
Design & Fabrication
(11-12, 2 credits)

Animal Science
Program of Study

Small Animal
Management
#8404
(9-10, 0.5 credit)

Equine Science
#8406
(9-10, 0.5 credit)

Livestock Production
#8402
(10-11, 1 credit)

Advanced Animal
Science
#8410
(10-11, 1 credit)

Veterinary Medicine
Applications/Lab
#8408
(11-12, 2 credits)

Plant Science Floral
Design
Program of Study

Landscaping Design &
Management
#8426
(10-11, 0.5 credit)

Turf Grass Management
#8428
(10-11, 0.5 credit)

Floral Design
#8418
(11-12, 1 credit)

Advanced Floral Design
#8420
(11-12, 1 credit)

Plant Science
Program of Study

Landscaping Design &
Management
#8426
(10-11, 0.5 credit)

Turf Grass Management
#8428
(10-11, 0.5 credit)

Greenhouse Operation
& Production
#8430
(11-12, 1 credit)

Practicum in AFNR
#8400P1
(11-12, 2 credits)

Indicates courses
with limited seating

Architecture & Construction

Business & Industry Endorsement

Carpentry

Program of Study

Principles of Construction
#8434
(9-10, 1 credit)

Construction Technology 1
#8436
(10-11, 2 credit)

Construction Technology 2
#8438
(11-12, 2 credit)

Practicum in Construction
Technology
#8436P1
(12, 2 credit)

Indicates courses
with limited seating

Arts, Audio/Video Technology, & Communications

Business & Industry Endorsement

Digital Media

#8460
(9-10, 1 credit)

Digital Communications
Program of Study

Professional
Communications
#8476
(8-9, 0.5 credit)

Audio/Video
Production 1
#8462
(10-11, 1 credit)

Audio/Video
Production 2
#8464
(11-12, 1 credit)

Practicum of
Audio/Video
Production
#8466P
(11-12, 2 credits)

Graphic Design &
Multimedia Arts
Program of Study

Graphic Design &
Illustration
#8472
(10-11, 1 credit)

Graphic Design &
Illustration 2
#8474
(11-12, 1 credit)

Practicum in Graphic
Design & Illustration
#8472P
(11-12, 2 credits)

Graphic Design &
Multimedia Arts
Program of Study

Animation 1
#8472
(10-11, 1 credit)

Animation 2
#8490
(11-12, 1 credit)

Practicum in Animation
#8490P
(11-12, 2 credits)

Graphic Design &
Multimedia Arts
Program of Study
(Commercial Photography)

Commercial
Photography
#8484
(10-11, 1 credit)

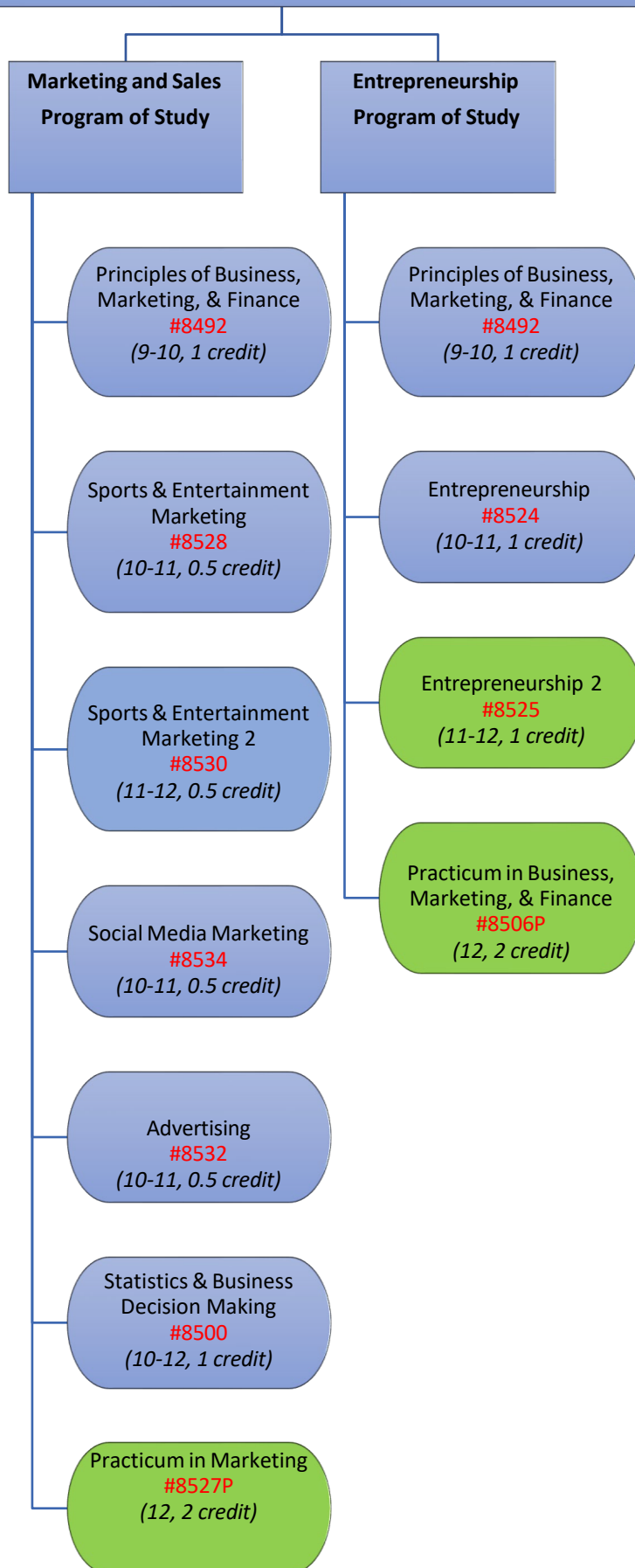
Commercial
Photography 2
#8486
(11-12, 1 credit)

Practicum in
Commercial
Photography
#8486P
(11-12, 2 credits)

Indicates courses
with limited seating

Business, Marketing, & Finance

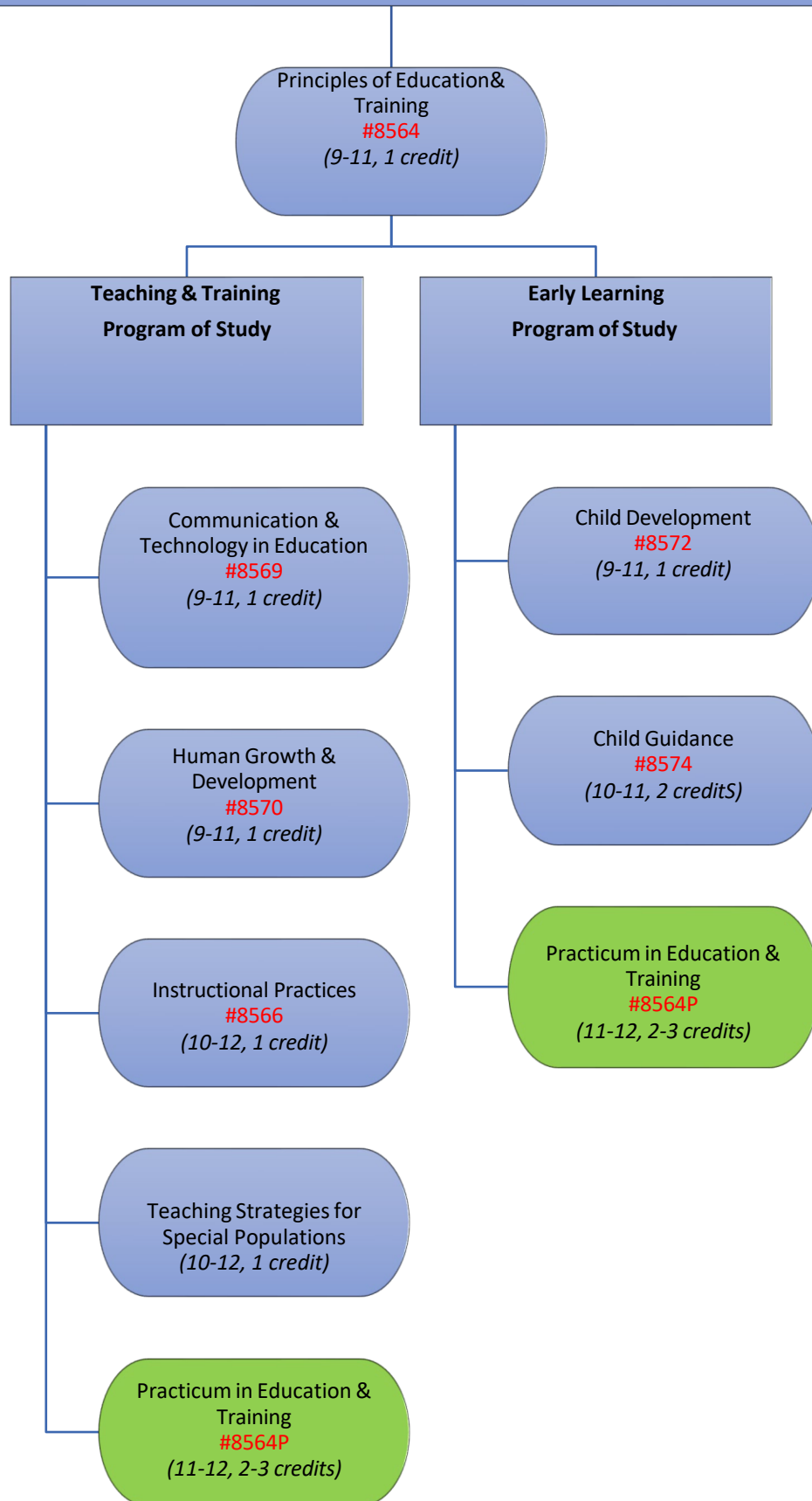
Business & Industry Endorsement



Indicates courses
with limited seating

Education & Training

Public Service Endorsement



Indicates courses
with limited seating

Health Science

Public Service Endorsement



Medical Terminology
#8542
(9-10, 1 credit)

Health Science Theory
#8546
(10-11, 1 credit)

Healthcare Therapeutic Program of Study
(Dental Assistant)

Introduction to Dental Science
(9-10, 1 credit)

Medical Terminology
#8542
(9-10, 1 credit)

Dental Anatomy & Physiology
(10-11, 1 credit)

Anatomy & Physiology
#8548
(10-11, 1 credit)

Health Science Theory
#8546
(10-11, 1 credit)

Dental Equipment & Procedures
(10-11, 1 credit)

Pharmacology
#8552
(11, 1 credit)

Dental Assistant Practicum
(12, 1 credit)

Healthcare Therapeutic Program of Study
(Certified Medical Assistant)

Anatomy & Physiology
#8548
(10-11, 1 credit)

Pharmacology
#8552
(11, 1 credit)

CMA Practicum
#8556P
(11-12, 1 credit)

CMA Internship
(12, 1 credit)

Healthcare Therapeutic Program of Study
(Certified Nursing Assistant)

Anatomy & Physiology
#8548
(10-11, 1 credit)

Pharmacology
#8552
(11, 1 credit)

CNA Practicum
#8556P
(11-12, 1 credit)

PCT Practicum
#8560P
(12, 3 credit)

Healthcare Therapeutic Program of Study
(Pharmacy Technician)

Anatomy & Physiology
#8548
(10-11, 1 credit)

Pharmacology
#8552
(11, 1 credit)

Pharmacy Technician
#8554P
(12, 1 credit)

Indicates courses
with limited seating

Hospitality & Tourism

Business & Industry Endorsement

Culinary Arts Program of Study

Principles of Hospitality &
Tourism (8, 1 credit)

Introduction to Culinary Arts
#8588
(9, 1 credit)

Culinary Arts
#8592
(10-11, 2 credits)

Foundations of Restaurant
Management
#8597
(10-11, 1 credit)

Advanced Culinary Arts
#8594
(11-12, 2 credits)

Food Science
#8596
(11-12, 1 credit)

Practicum in Culinary Arts
#8595P
(12, 2 credits)

Indicates courses
with limited seating

Human Services

Public Service Endorsement

Family & Community Services Program of Study

Professional Communications
#8476
(8-9, 0.5 credit)

Principles of Human Services
#8568
(8-9, 1 credit)

Interpersonal Studies
#8578
(9-10, 0.5 credit)

Dollars & Sense
#8576
(9-10, 0.5 credit)

Lifetime Nutrition & Wellness
#8580
(10-11, 0.5 credit)

Human Growth & Development
#8570
(10-11, 1 credit)

Child Development
#8572
(10-11, 1 credit)

Counseling & Mental Health
#8586
(11-12, 1 credit)

Practicum in Human Services
#8568P
(12, 2 credits)

Indicates courses
with limited seating

Principles of Information Technology

Business & Industry Endorsement

Networking Systems Program of Study

Principles of Information Technology
#8600
(9, 1 credit)

Computer Maintenance
#8608
(10, 1-2 credits)

Networking
#8610L
(11-12, 2 credits)

Practicum in Information Technology
#8600P
(12, 1 credit)

Indicates courses
with limited seating

Law & Public Service

Public Service Endorsement

Principles of Law, Public Safety,
Corrections, & Security
#8612
(9-10, 1 credit)

Law Enforcement Program of Study

Law Enforcement 1
#8614
(10-11, 1 credit)

Law Enforcement 2
#8616
(11-12, 1 credit)

Correctional Services
#8621
(10-12, 1 credit)

Counseling & Mental
Health
#8586
(11-12, 1 credit)

Forensic Science
#8618
(11-12, 1 credit)

Practicum in Law
Enforcement
#8614P2
(11-12, 2-3 credits)

Emergency Services Program of Study (911 Dispatch)

Disaster Response
#8622
(10-11, 1 credit)

Counseling & Mental
Health
#8586
(11-12, 1 credit)

911 Dispatch
#8614P3
(11-12, 2-3 credits)

Emergency Services Program of Study (EMT)

Disaster Response
#8622
(10-11, 1 credit)

Counseling & Mental
Health
#8586
(11-12, 1 credit)

Anatomy & Physiology
#8548
(11-12, 1 credit)

Emergency Medical
Technician Basic {CTC}
#8614EC
(12, 2 credits)

This class takes 4
class periods at
CTC.

Indicates courses
with limited seating

Manufacturing

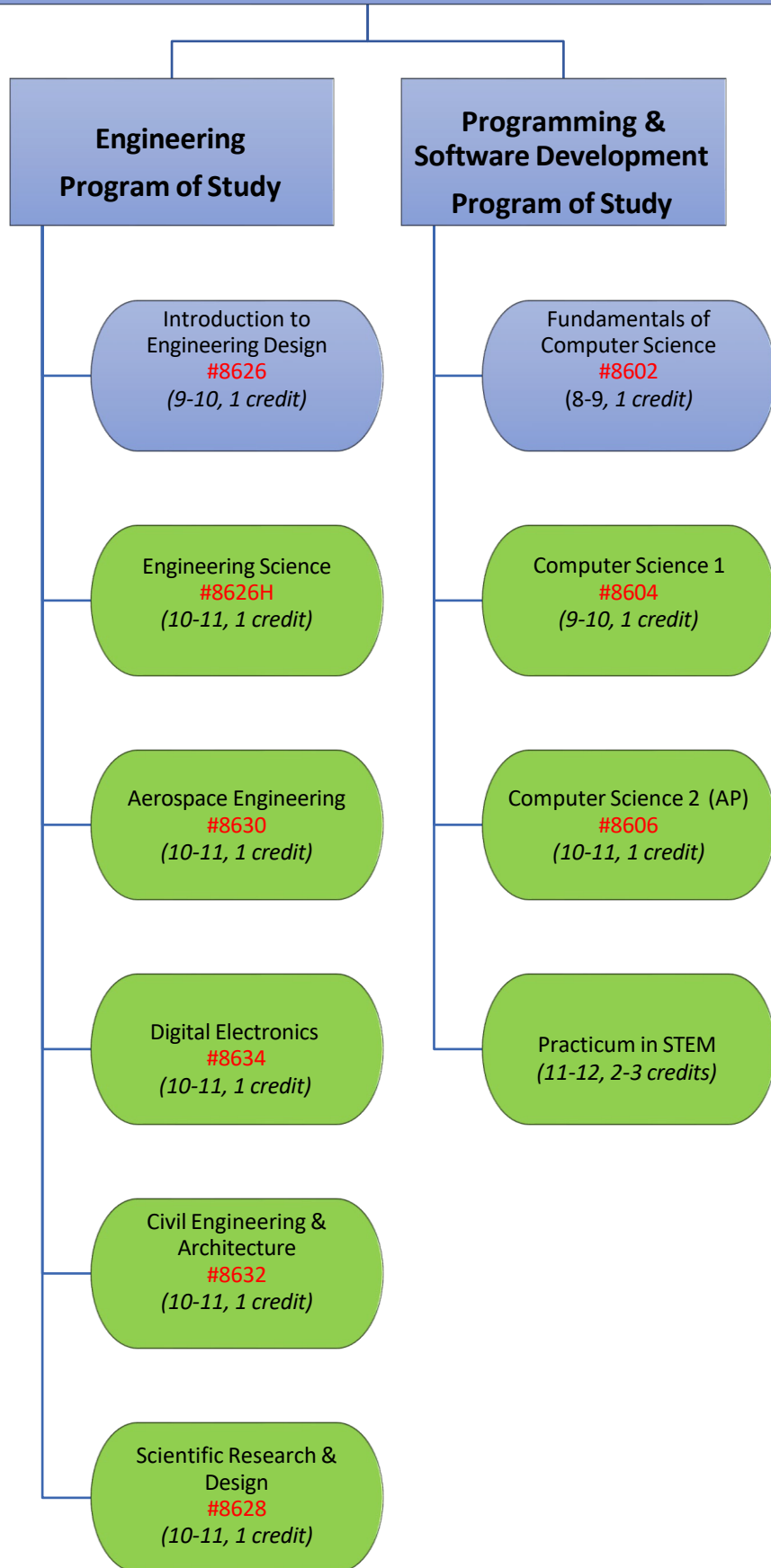
Business & Industry Endorsement



Indicates courses
with limited seating

Science, Technology, Engineering, and Mathematics

STEM Endorsement



Indicates courses
with limited seating

Transportation, Distribution, and Logistics

Drone (Unmanned Flight) Program of Study

Introduction to Engineering
Design
#8626
(9, 1 credit)

Robotics 1
8625
(9-10, 1 credit)

Robotics 2
#8627
(11-12, 1 credit)

Introduction to Unmanned
Aerial Vehicles (UAV)
#8627P
(12, 2 creditS)

Indicates courses
with limited seating

CTE Courses

Accounting 1

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8496**
- Prerequisites: None
- Recommended Prerequisites: Principles of Business, Marketing, and Finance.
- In Accounting I, students will investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students will formulate and interpret financial information for use in management decision making. Accounting includes such activities as bookkeeping, systems design, analysis, and interpretation of accounting information.

Accounting 2 (counts as 4th math)

- Recommended Grades: 11-12 Credit: 1 Tier 2 **Course #: 8498**
- Prerequisites: Accounting I
- In Accounting II, students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources. **Note: This course satisfies a math credit requirement for students on the Foundation High School Program and students will be eligible to take the QuickBooks Certified User exam.**

Advanced Animal Science (counts as 4th science)

- Recommended Grade: 11-12 Credit: 1 Tier 2 **Course #: 8410**
- Prerequisites: Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production.
- Advanced Animal Science 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. **Note: This course satisfies a science credit requirement for students on the Foundation High School Program.**

Advanced Culinary Arts

- Recommended Grades: 10-12 Credit: 2 Tier 2 **Course #: 8594**
- Prerequisite: 8091 Culinary Arts
- Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards to prepare students for success in higher education, certifications, and/or immediate employment. **Note: Students will have the opportunity to earn the ServSafe Manager certification.**

Advanced Floral Design

- Recommended Grades: 11-12 Credit: 1 Tier 2 **Course #: 8420**
- Prerequisite: Floral Design
- In this course, students build on the knowledge from the Floral Design course and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course focuses on building skills in advanced floral design and

providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event. **Note: Students will have the potential to earn the Texas State Floral Association Level 2 certification.**

Advanced Plant and Soil Science

- Recommended Grades: 11-12 Credit: 1 Tier 2 **Course #: 8411**
- Prerequisite: None. Recommended: Biology, Integrated Physics and Chemistry, Chemistry, or Physics and a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster.
- Advanced Plant and Soil Science 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. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace. **Note: This course satisfies a science credit requirement for students on the Foundation High School Program.**

Advanced Video Game Programming

- Recommended Grades: 10-12 Credits: 1 Tier 2 **Course #: 8482**
- Recommended Prerequisite: Video Game Design and Video Game Programming
- Game Design is an all-encompassing technical field, where cutting edge technology is combined with some of the most creative minds available to produce the most engaging entertainment available. Using Unity as an introduction to 3D game development, covering everything needed to take a game from concept to complete. With a wide range of topics, the course will provide opportunities for students to discover passions towards technology in ways that resonate with their interests.
 - By the end of this course, students will have exposure to and an understanding of:
 - Game development skills with Unity
 - Object-oriented programming concepts
 - 3D modeling with Blender
 - Image manipulation with GIMP
 - Concepts related to the design process, which may translate into other fields
 - Abilities to communicate and collaborate on group-based projects

Advertising

- Recommended Grades: 9-12 Credit: 0.5 Tier 2 **Course #: 8532**
- Prerequisite: Principles of Business, Marketing and Finance
- Advertising is designed as 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. The course explores the social, cultural, ethical, and legal issues of advertising, historical influences, strategies, media decision processes as well as integrated marketing communications, and careers in advertising and sales promotion. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge.

Aerospace Engineering (PLTW)

- Recommended Grades 9-12 Credit: 1 Tier 2 **Course #: 8630**
- Prerequisite: None
- This is a course in the PLTW Engineering Program. Aerospace Engineering ignites students' learning in the fundamentals of atmospheric and space flight. Aerospace Engineering is one of the specialization courses in the PLTW Engineering program. The course deepens the skills and

knowledge of an engineering student within the context of atmospheric and space flight. Students explore the fundamentals of flight in air and space as they bring the concepts to life by designing and testing components related to flight such as an airfoil, propulsion system and a rocket. They learn orbital mechanics concepts and apply these by creating models using industry-standard software. They also apply aerospace concepts to alternative applications such as a wind turbine and parachute. Students simulate a progression of operations to explore a planet, including creating a map of the terrain with a model satellite and using the map to execute a mission using an autonomous robot.

Agricultural Mechanics and Metal Technologies

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8414**
- Prerequisite: Principles of Agriculture, Food, & Natural Resources
- Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. **Note: Students will be required and successfully pass the OSHA 30 General safety course the 1st six weeks of the course. By the end of the course students will have the potential to earn the AWS Structural Steel and Sheet Metal certifications.**

Agricultural Structures Designs and Fabrication

- Recommended Grades: 11-12 Credit: 1 Tier 2 **Course #: 8416**
- Prerequisite: Agricultural Mechanics and Metal Technologies
- In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication.

Anatomy and Physiology (counts as 4th science)

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8548**
- Prerequisite: Biology and a second science credit
- This course is designed for students to 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 will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. **Note: This course satisfies a science credit requirement for students on the Foundation High School Program.**

Animation 1

- Recommended Grades: 10–12 Credits: 1 Tier 2 **Course #: 8488**
- Prerequisite: None. Recommended Prerequisite: Art I or Principles of Art, Audio/Video Technology, and Communications. Recommended Corequisite: Animation I Lab.
- 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 2

- Recommended Grades: 11-12 Credits: 1 Tier 2 **Course #: 8490**
- Prerequisite: Animation 1
- 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. The instruction also assists students seeking careers in the animation industry.

Animation Practicum

- Recommended Grades: 11-12 Credits: 2 Tier 2 **Course #: 8490P**
- Prerequisites: Animation 2
- Building upon the concepts taught in Animation 2, 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.

Audio/Video Production Practicum

- Recommended Grades: 11–12 Credits: 2 Tier 2 **Course #: 8466P**
- Prerequisites: Audio/Video Production 2
- Building upon the concepts taught in Audio/Video Production 2 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 audio and video products in a professional environment. This course may be implemented in an advanced audio/video or audio format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Audio/Video Production 1

- Recommended Grades: 9–12 Credits: 1 Tier 2 **Course #: 8462**
- Prerequisite: None. Recommended: Principles of Arts, Audio/Video Technology, and Communications.
- 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 industry with a focus on pre-production, production, and post-production audio and video products.

Audio/Video Production 2

- Recommended Grades: 10–12 Credits: 1 Tier 2 **Course #: 8464**
- Prerequisite: Audio/Video Production 1
- Building upon the concepts taught in Audio/Video Production, 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 develop an advanced understanding of the industry with a focus on pre-production, production, and postproduction products. This course may be implemented in an audio format or a format with both audio and video.

Business English (counts as 4th English)

- Recommended Grade: 12 Credit: 1 Tier 2 **Course #: 8516**
- Prerequisite: English III
- In Business English, students enhance communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology. **Note: This course satisfies an English requirement for students on the Foundation High School Program.**

Business Law

- Recommended Grades: 11-12 Credit: 1 Tier 2 **Course #: 8133**
- Prerequisite: None
- Business Law is designed for students to analyze various aspects of the legal environment, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.

Business Management

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8506**
- Prerequisite: None
- Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.

Business Management Practicum

- Recommended Grades: 11-12 Credits: 2 Tier 2 **Course #: 8506P**
- Prerequisite: Principles of Business, Marketing, & Finance and Business Management
- Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. 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 or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

Career Preparation 1

- Recommended Grades: 11–12 Credit: 2 Tier 2 **Course #: 8520**
- Prerequisite: None
- Career Preparation 1 provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. **Note: Selection based on grades, discipline, and attendance. A student must be a minimum age of 16 and hold valid work documentation such as a Social Security card to enroll in any of the practicum learning experiences that have a paid component. Students must on average work a minimum of 15 hours per week.**

Career Preparation 2

- Recommended Grades: 12 Credit: 2 Tier 2 **Course #: 8522**
- Prerequisite: Career Preparation 1
- An advanced marketing course with an emphasis on developing decision-making skills through a combination of school-based technical instruction and on-the-job training at an approved work site. The development of a marketing research project is a component. Students will work a minimum of 15 hours per week. Possible certification opportunity available. **Note: Selection based on grades, discipline, and attendance. A student must be a minimum age of 16 and hold valid work documentation such as a Social Security card to enroll in any of the practicum learning experiences that have a paid component. Students must on average work a minimum of 15 hours per week.**

Certified Medical Assistant Practicum

- Recommended Grades: 11-12 Credit: 2 Tier 2 **Course #: 8562P**
- Prerequisites: Health Science Theory and Biology
- Students will have the opportunity to learn clinical and office duties which may include making appointments, accepting payments, charting, taking, and recording vital signs and medical histories, preparing patients for examination, collecting specimens, and administering medications as directed by the physician. This course covers creating patient rapport, medical safety, and processes of keeping accurate records. Certifications are available in Phlebotomy tech and Certified Clinical Medical Assistant. **Note: Current AHA Healthcare Provider CPR, current immunizations to include a TB skin test <3 months prior to clinicals and proof of the COVID vaccine, and scrubs are required. Selection is based on grades, discipline, and attendance. Students are subject to random drug screening. Background checks will be performed on all students.**

Certified Nurse Aide Practicum

- Recommended Grades: 11-12 Credit: 2 Tier 2 **Course #: 8556P**
- Prerequisite: Biology and Health Science Theory
- This hands-on course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. This course includes career shadowing at a local hospital and Certified Nursing Assistant training at a local nursing home. Students will be prepared to become certified as Nurse Aides. **Note: All students must be AHA Healthcare Provider CPR certified. A TB skin test and a current flu shot < 3 months prior to clinicals, proof of the COVID vaccine, and scrubs are required. Immunizations can be done at your local doctor's office for a minimal fee. Students are subject to random drug testing. Selection based upon grades, discipline, and attendance. A Texas Photo ID and an original Social Security card are required to be eligible to test. Background checks will be performed on all students.**

Certified Medical Assistant Internship

- Recommended Grades: 12 Credit: 2 Tier 2 **Course #: 8558P**
- Prerequisite: Certified Nurse Aide Practicum, must be nurse aide certified.
- This hands-on course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. This course includes career shadowing at a local hospital and Certified Nursing Assistant training at a local nursing home. Students will be prepared to take the state exam in May (cost is the responsibility of student). All students must be AHA Healthcare Provider CPR certified and be current on all immunizations prior to the first day of school (no exceptions). A TB skin test and a current flu

shot is also required within 6 months of the first day of clinical and can be done at your local doctor's office for a minimal fee. Students are subject to random drug testing.

Child Development

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8572**
- Prerequisite: Principles of Human Services
- Child Development is a technical laboratory course that 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.

Child Guidance

- Recommended Grades: 10-12 Credit: 2 Tier 2 **Course #: 8574**
- Prerequisite: Principles of Human Services and Child Development
- Child Guidance is a technical laboratory course that addresses the knowledge and skills related to child growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs. Instruction may be delivered through school-based laboratory training or through work-based delivery arrangements such as cooperative education, mentoring, and job shadowing. **Note: Students will have the potential to earn Child Development Associate certification. Students are subject to random drug screens. Background checks will be performed on all students.**

Civil Engineering and Architecture (PLTW)

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8632**
- Prerequisite: None
- This course is part of the PLTW Engineering Program. In CEA students are introduced to important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architectural design software.

Commercial Photography 1

- Recommended Grades: 10–12 Credits: 1 Tier 2 **Course #: 8484**
- Prerequisite: None.
- 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 commercial photography industry with a focus on creating quality photographs.

Commercial Photography 2

- Recommended Grades: 10-12 Credits: 1 Tier 2 **Course #: 8486**
- Prerequisite: None. Recommended Prerequisites: Commercial Photography 1
- In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.

Computer Maintenance

- Recommended Grades: 10-12 Credit: 2 Tier 2 **Course #: 8608**
- Prerequisite: 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. **Note: Students will have the potential to earn the CompTIA A+ certification. Selection based upon grades, discipline, and attendance.**

Computer Science 1 (counts as 1st year LOTE)

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8604**
- Prerequisites: Algebra 1
- Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

Computer Science 2 (counts as 2nd year LOTE)

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8606**
- Prerequisites: Algebra 1 and Computer Science 1
- Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts.

Construction Technology 1

- Recommended Grades: 10-12 Credit: 2 Tier 2 **Course #: 8436**
- Prerequisite: None
- In Construction Technology I, 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. For safety and liability considerations, limiting course enrollment to 15 students is recommended. **Note: Students will have the potential to earn the NCCER Core Level I certification. Selection based on grades, discipline, and attendance.**

Construction Technology 2

- Recommended Grades: 11-12 Credit: 2 Tier 2 **Course #: 8438**
- Prerequisite: Construction Technology 1
- In Construction Technology II, 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. For safety and liability considerations, limiting course enrollment to 15 students is recommended.

Correctional Services

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8621**
- Prerequisite: None. Recommend Prerequisite: Principles of Law, Public Safety, Corrections, & Security.
- In Correctional Services, students prepare for certification required for employment as a municipal, county, state, or federal correctional officer. Students will learn the role and responsibilities of a county or municipal correctional officer; discuss relevant rules, regulations, and laws of municipal, county, state, or federal facilities; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the municipal, county, state, or federal correctional setting. Students will analyze rehabilitation and alternatives to institutionalization for inmates.

Counseling and Mental Health

- Recommended Grades: 11-12 Credit: 1 Tier 2 **Course #: 8586**
- Prerequisite: None
- Recommended Prerequisite: 8100 Principles of Human Services
- In this class 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. **Note: Students have the potential to earn the Community Health Worker certification.**

Court Systems and Practices

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8621**
- Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.

Culinary Arts

- Recommended Grades: 10-12 Credit: 2 Tier 2 **Course #: 8592**
- Prerequisite: Must obtain food handlers license or completed Intro to Culinary Arts
- Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification or other appropriate industry certifications. This course is offered as a laboratory-based course. **Note: Students will have the potential to earn the ServSafe Manager certification.**

Dental Anatomy and Physiology

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8550**
- Prerequisites: None Recommended Prerequisite or Co-Prerequisite: Medical Terminology
- Dental Anatomy and Physiology is a health science course designed for exploration of the physiology of the head, neck, oral, and dental anatomy. Students will identify and describe functions of anatomical structures, including the bones, muscles, nerves, and blood vessels of the head and neck as well as their relationship to the corresponding body systems. Students will also identify and describe oral, head and neck pathologies, conditions, diagnostic tools, treatments, and professions. While this course is identified as dental, it is well suited for all students interested in pursuing any of the professions involved with the head and neck such as dentistry, otolaryngology, optometry, radiology, audiology, neurology, reconstructive/plastic surgery.

Dental Assistant Practicum

- Recommended Grades: 12 Credit: 2 Tier 2
- Pre-Requisites: Introduction to Dental Science, Dental Anatomy & Physiology, & Health Science Theory
- The Practicum in Health Science course 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. This course includes a detailed study of dental instruments, their care and function. Also included is the study of the different dental procedures and techniques on assisting, which includes practice of ergonomics with each procedure. This course consists of theory and practical lab application. **Note: Current AHA Healthcare Provider CPR, current immunizations to include a TB skin test <3 months prior to clinicals and proof of the COVID vaccine, and scrubs are required. Selection is based on grades, discipline, and attendance. Students are subject to random drug screening. Background checks will be performed on all students.**

Digital Audio Technology 1

- Recommended Grades: 9–12 Credits: 1 Tier 2 **Course #: 7468**
- Prerequisite: None. Recommended: Principles of Arts, Audio/Video Technology, and Communications or Audio/Video Production 1
- Digital Audio Technology 1 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. Digital Audio Technology 1 does not replace Audio Video Production courses but is recommended as a single credit, co-curricular course with an audio production technical emphasis. This course can also be paired with Digital and Interactive Media. 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 2

- Recommended Grades: 10–12 Credits: 1 Tier 2 **Course #: 8470**
- Prerequisite: Digital Audio Technology 1
- Digital Audio Technology 2 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. Digital Audio Technology II does not replace Audio Video Production courses but is recommended as a single credit, co-curricular course with an audio production technical emphasis. Students will be expected to develop an understanding of the audio industry with a technical emphasis on production and critical-listening skills.

Digital Electronics (counts as 4th math)

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8634**
- Prerequisites: Algebra 1 and Geometry
- Digital Electronics is the study of electronic circuits that are used to process and control digital signals. Digital electronics is the foundation of modern electronic devices such as cellular phones, digital audio players, laptop computers, digital cameras, and high-definition televisions. The primary focus of Digital Electronics is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. **Note: This course satisfies a math credit requirement for students on the Foundation High School Program.**

Disaster Response

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8622**
- Recommended Prerequisite: Principles of Law, Public Safety, Corrections, and Security
- Disaster Response includes basic training of students in disaster survival and rescue skills that would improve the ability of citizens to survive until responders or other assistance could arrive. Students will receive education, training, and volunteer service to make communities safer, stronger, and better prepared to respond to the threats of terrorism, crime, public health issues and disasters of all kinds.

Dollars and Sense

- Recommended Grades: 9-12 Credit: 0.5 Tier 2 **Course #: 8576**
- Prerequisite: Principles of Human Services
- This course focuses on consumer practices and responsibilities, the money management process, decision-making skills, impact of technology, and preparation for human services careers.

Education and Training 1 Practicum

- Recommended Grade: 12 Credit: 2 Tier 2 **Course #: 8564P**
- Prerequisite: Instructional Practices
- Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence 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. **Note: Students have the potential to earn their Education Aide I certification**

Education & Training 2 Practicum

- Recommended Grade: 12 Credit: 3 Tier 2 **Course #: 8054**
- Prerequisite: Instructional Practices. Corequisite: Practicum in Education & Training
- Extended Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence 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.

Emergency Telecommunications Dispatcher Practicum

- Recommended Grades: 11–12 Credit: 2 Tier 2 **Course #: 8614P3**
- The practicum course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. **Note: Students can earn their Emergency Telecommunications Dispatcher certification.**

Engineering Design and Development (PLTW)

- Recommended Grades: 11-12 Credit: 1 Tier 3 **Course #: 8629**
- Prerequisite: Intro to Engineering Design
- Engineering Design and Development is the capstone course in the PLTW high school engineering program. It is an open-ended engineering research course in which students design and develop an original solution to a well-defined and justified open-ended problem by applying an engineering design process.

Engineering Math (counts as 4th math)

- Recommended Grades: 11-12 Credit: 1 Tier 3 **Course #: 8640H**
- Prerequisites: Algebra 2
- Engineering Mathematics is a course where students solve and model design problems. Students will use a variety of mathematical methods and models to represent and analyze problems that represent a range of real-world engineering applications such as robotics, data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and computer programming. **Note: This course satisfies a math credit requirement for students on the Foundation High School Program.**

Engineering Science (counts as 4th science)

- Recommended Grades: 10–12 Credit: 1 Tier 2
- Prerequisite: Algebra I and Biology, Chemistry, Integrated Physics, and Chemistry (IPC), or Physics.
- Engineering Science is an engineering course designed to expose students to some of the major concepts and technologies that they will encounter in a postsecondary program of study in any engineering domain. Students will have an opportunity to investigate engineering and high-tech careers. In Engineering Science, students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community. **Note: This course satisfies a science credit requirement for students on the Foundation High School Program.**

Entrepreneurship

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8524**
- Prerequisite: Principles of Business, Marketing and Finance
- In this course 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. **Note: Students have the potential to earn the Entrepreneurship and Small Business certification.**

Entrepreneurship II

- Recommended Grades: 11-12 Credit: 1 Tier 2 **Course #: 8525**
- Entrepreneurship I
- The purpose of the course is to prepare students with the knowledge and skills needed to become a successful entrepreneur within an innovative marketplace. The goal and outcome of the course is for students to have their business launched by the end of the course or have the tools necessary to launch and operate their business. Students are encouraged to work in close cooperation with local industry leaders, community members, and educators to develop ideas and objectives, complete a business model canvas, pitch to potential investors, register with governmental agencies, develop their brand identity, and participate in local chamber of commerce meetings and events. The recommended participants are students in the CTE Entrepreneurship program of study, students in grades 11-12, and those interested in starting a business. **Note: Students have the potential to earn the Entrepreneurship and Small Business certification.**

Equine Science

- Recommended Grades: 10–12 Credit: 0.5 Tier 2 **Course #: 8406**
- Prerequisite: Principles of Agriculture, Food, & Natural Resources
- In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules.

Extended Practicum in Agriculture, Food, & Natural Resources - 1st time

- Recommended Grades: 11-12 Credit: 3 Tier 2 **Course #: 8071E1**
- Prerequisites: A minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster.
- Extended Practicum in Agriculture, Food, and Natural Resources 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 experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources Career Cluster.

Extended Practicum in Agriculture, Food, & Natural Resources - 2nd time

- Recommended Grades: 11-12 Credit: 3 Tier 2 **Course #: 8071E2**
- Prerequisites: A minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster.
- Extended Practicum in Agriculture, Food, and Natural Resources 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 experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources Career Cluster.

Fashion Marketing

- Recommended Grades: 9-12 Credit: 0.5 Tier 2 **Course #: 8538**
- Prerequisite: None. Recommended Prerequisite: Principles of Business, Marketing, and 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.

Floral Design

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8418**
- Prerequisite: Principles of Agriculture, Food, & Natural Resources.
- **Note: This course satisfies a fine arts credit.**
- 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 will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.

Food Science (counts as 4th science)

- Recommended Grades: 11-12 Credit: 1 Tier 2 **Course #: 8596**
- Prerequisite: 3 units of science, including chemistry and biology
- In Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. 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. **Note: This course satisfies a science credit requirement for students on the Foundation High School Program.**

Forensic Psychology

- Recommended Grades: 11–12 Credit: 1 Tier 2 **Course #: 8620**
- Recommended Prerequisite: Principles of Law, Public Safety, Corrections, & Security
- Forensic psychology is found at the intersection between psychology and the criminal justice system. It involves understanding criminal law in the relevant jurisdictions in order to be able to interact within the criminal justice system. It utilizes and applies basic skills developed in psychology and criminal scenarios resulting in a structured and scientific approach to investigative analysis: thereby, enabling police and law enforcement officials to predict criminal activity via scientific analysis rather than intuition. Students will learn basic structured psychological investigative techniques in question building, interviewing, criminal behavior characteristics, truth detection methodology, research methods, statistical analysis and probability forecasting.

Forensic Science (counts as 4th science)

- Recommended Grades: 11–12 Credit: 1 Tier 2 **Course #: 8618**
- Prerequisites: Biology and Chemistry
- Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint,

glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science. **Note: This course satisfies a science credit requirement for students on the Foundation High School Program.**

Foundations of Restaurant Management

- Recommended Grades: 10–12 Credit: 1 Tier 2 **Course #: 8597**
- Recommended Prerequisites: Principles of Hospitality and Tourism, Introduction to Culinary Arts
- Foundations of Restaurant Management provides students with a foundation to understand basic culinary skills and food service-restaurant management, along with current food service restaurant industry topics and standards. Building on prior instruction, this course provides introductory insight into critical thinking, financial analysis, industry technology, social media, customer awareness and leadership in the food service-restaurant industry. Students will gain an understanding of food service-restaurant operations and the importance of communicating effectively to diverse audiences, purposes and situations in food service-restaurant operations and management. Students will learn how the front of the house and the back of the house of management operate and collaborate and obtain value-added certifications in the industry to help launch themselves into restaurant/foodservice careers.

Fundamentals of Computer Science

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8602**
- Recommended Prerequisite: Principles of Information Technology
- Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.

Fundamentals of Real Estate

- Recommended Grades: 11-12 Credit: 2 Tier 2 **Course #: 8540**
- Recommended Prerequisite: Principles of Business, Marketing & Finance
- This course contains the curriculum necessary to complete the pre-licensure education requirements of the Texas Real Estate Commission (TREC) to obtain a real estate salesperson license. Includes the following TREC course materials: Principles of Real Estate I and II, Law of Contracts, Law of Agency, Real Estate Finance, and Promulgated Contract Forms. **Note: Students will have the opportunity to earn their Real Estate Sales Agent License.**

General Employability Skills

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8518**
- Prerequisites: None
- This course provides students with knowledge of the prerequisite skills for general employment as well as the means of obtaining those skills. Employability skills include fundamentals of maintenance of personal appearance and grooming. The course also includes the knowledge, skills, and attitudes that allow employees to get along with their co-workers, make important

work-related decisions, and become strong members of the work team. Discovering job possibilities that link skills, abilities, interests, values, needs, and work environment preferences is a part of the process of obtaining employability skills and abilities and is experiential learning that takes place over time.

Global Business

- Recommended Grades: 10-12 Credit: 0.5 Tier 2 **Course #: 8512**
- Prerequisite: None
- Global Business is designed for students to analyze global trade theories, international monetary systems, trade policies, politics, and laws relating to global business as well as cultural issues, logistics, and international human resource management.

Graphic Design and Illustration 1

- Recommended Grades: 10–12 Credits: 1 Tier 2 **Course #: 8472**
- Recommended Prerequisite: Principles of Arts, Audio/Video Technology, and Communications.
- 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 and Illustration 2

- Recommended Grades: 10-12 Credits: 1 Tier 2 **Course #: 8474**
- Prerequisite: Graphic Design and Illustration 1
- Within this context, students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills.

Graphic Design and Illustration Practicum

- Recommended Grades: 10-12 Credits: 2 Tier 2 **Course #: 8472P**
- Prerequisites: Graphic Design and Illustration II. 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 a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Greenhouse Operation and Production

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8430**
- Prerequisite: None
- Greenhouse Operation and Production is designed to develop an understanding of greenhouse production techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

Health Science Theory

- Recommended Grades: 10-11 Credit: 1 Tier 2 **Course #: 8546**
- Prerequisite: Biology
- The Health Science Theory 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. **Note: Students may earn their American Heart Association Healthcare Provider CPR certification. This course and the CPR certification is a prerequisite for any of the Health Science Practicum courses.**

Horticultural Science (counts as 4th science)

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8422**
- Prerequisite: None. Recommended Prerequisite: Principles of Agriculture, Food, & Natural Resources.
- Horticultural Science is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. **Note: This course satisfies a science credit requirement for students on the Foundations High School Program.**

Human Growth and Development

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8570**
- Prerequisite: Principles of Education & Training
- This course is an examination of human development across the lifespan with emphasis on research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.

Human Resources Management

- Recommended Grades: 11-12 Credit: 0.5 Tier 2 **Course #: 8514**
- Prerequisite: Principles of Business, Marketing, & Finance
- Human Resources Management 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 the impact of global events on human resources management.

Information Technology Practicum

- Recommended Grade: 12 Credit: 2 Tier 2 **Course #: 8600P**
- Prerequisite: A minimum of 2 high school IT courses
- In this course, students will 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 IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.

Instructional Practices

- Recommended Grades: 11-12 Credit: 2 Tier 2 **Course #: 8566**
- Prerequisite: Principles of Education & Training and Human Growth and Development
- This course is a field-based (practicum) internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators or trainers 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, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

Interpersonal Studies

- Recommended Grades: 9-12 Credit: 0.5 Tier 2 **Course #: 8578**
- Prerequisite: None
- 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.

Introduction to Culinary Arts

- Recommended Grades: 9-10 Credit: 1 Tier 2 **Course #: 8588**
- Prerequisite: Principles of Hospitality & Tourism
- This course will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course. **** To successfully complete this course, students are expected to complete their food handler's license. This course is required prior to taking culinary arts.***

Introduction to Dental Science

- Recommended Grades: 9-11 Credit: 1 Tier 2
- Recommended Co-Prerequisite: Medical Terminology
- Introduction to Dental Science is an introductory health science course designed to initiate secondary students to the field of dentistry and related topics. At the end of the course, students will be able to discuss the history of dentistry; identify dental related career pathways; explain dental legal and ethical responsibilities; recognize professional healthcare behavior and demeanor; and perform basic routine dental office procedures. The purpose of this course is to establish a foundation for future coursework in dental science and prepare secondary students for a future career in dentistry.

Introduction to Engineering Design (PLTW)

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8626**
- Students study the engineering design process, applying math, science, and engineering standards to identify and design solutions to a variety of real problems. They work individually and in collaborative teams to identify, research, test, refine, develop, and communicate design solutions using industry practices, standards, and tools.

Introduction to Unmanned Aerial Vehicles (UAV) Drones

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8609**
- Recommended Prerequisite: Robotics I
- The Introduction to Unmanned Aerial Vehicle (UAV) Flight course is designed to prepare students for entry-level employment or continuing education in piloting UAV operations. Principles of UAV is designed to instruct students in UAV flight navigation, industry laws and regulations, and safety regulations. Students are also exposed to mission planning procedures, environmental factors, and human factors involved in the UAV industry. ***Note: Students may earn their FAA Part 107 Remote Drone Pilot certification.***

Introduction to Welding

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8456**
- Prerequisite: None
- This course will introduce welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes. Topics include industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. Students will develop knowledge and skills related to welding and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills will prepare students for future success. For safety and liability considerations, limiting course enrollment to 15 students is recommended. **Note: Students will be required and successfully pass the OSHA 30 General safety course the 1st six weeks of the course. By the end of the course students will be eligible to take the AWS Structural Steel and Sheet Metal certification.**

Landscape Design and Management

- Recommended Grades: 10-12 Credit: 0.5 Tier 2 **Course #: 8426**
- Prerequisite: None
- This course is designed to develop an understanding of landscape design and management techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

Law Enforcement 1

- Recommended Grades: 10–12 Credit: 1 Tier 2 **Course #: 8614**
- Prerequisite: None
- Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

Law Enforcement 2

- Recommended Grades: 10–12 Credit: 1 Tier 2 **Course #: 8616**
- Prerequisite: Law Enforcement 1
- Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. Students will understand ethical and legal responsibilities, patrol procedures, first responder roles, telecommunications, emergency equipment operations, and courtroom testimony.

Lifetime Nutrition & Wellness

- Recommended Grades: 9-12 Credit: 0.5 Tier 2 **Course #: 8580**
- Prerequisite: None
- Recommended Prerequisite: 8100 Principles of Human Services
- This course is a laboratory course that 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.

Livestock Production

- Recommended Grade: 10-12 Credit: 1 Tier 2 **Course #: 8402**
- Prerequisite: Level one or Level two Animal Science Elective
- In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Masonry Technology 1

- Recommended Grades: 10-12 Credit: 2 Tier 2 **Course #: 8452**
- Prerequisite: Principles of Construction
- Masonry Technology 1 provides information and techniques related to basic masonry and safety precautions. For safety and liability considerations, limiting course enrollment to 15 students is recommended. **Note: Students may earn their NCCER Masonry Level I certification.**

Masonry Technology 2

- Recommended Grades: 11-12 Credit: 2 Tier 2 **Course #: 8454**
- Prerequisite: Mason Technology 1
- Masonry Technology 2 is designed to further enhance the skills and knowledge of the beginning masonry student. For safety and liability considerations, limiting course enrollment to 15 students is recommended. **Note: Students may earn their NCCER Masonry Level II certification.**

Medical Terminology

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8542**
- Prerequisite: None
- This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Mill and Cabinet Making

- Recommended Grades: 10-12 Credit: 2 Tier 2 **Course #: 8442**
- Prerequisite: Principles of Construction
- In Mill and Cabinetmaking Technology, students will gain knowledge and skills needed to enter the workforce in mill work and cabinet manufacturing and installation. Students may also apply these skills to professions in carpentry or building maintenance supervision or use the skills as a foundation for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in cabinet design, tool usage, jointing methods, finishes, and industry-level practices such as numerical and computer-control production methods.

Mobile Application Development

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8638**
- Prerequisites: Algebra 1
- Mobile Application Development will foster 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. By using software design knowledge and skills that support the work of individuals and groups in

solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of mobile application development through the study of development platforms, programming languages, and software design standards.

Money Matters

- Recommended Grades: 9-11 Credit: 1 Tier 2 **Course #: 8494**
- Prerequisite: Principles of Business, Marketing, & Finance
- In Money Matters, students will investigate money management from a personal financial perspective. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning.

Networking Lab

- Recommended Grades: 10-12 Credit: 2 Tier 2 **Course #: 8610L**
- Prerequisite: Computer Maintenance, Principles of Information Technology
- In this course students will develop knowledge of the concepts and skills related to data networking technologies and practices to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. **Note: Students will have the potential to earn the CompTIA Network certification**

Patient Care Technician Practicum

- Recommended Grades: 12 Credit: 3 Tier 2 **Course #: 8560P**
- Prerequisites: Health Science Theory and Biology
- The Extended Practicum in Health Science course 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 are subject to random drug screening and background checks. NOTE: Selection based upon grades, discipline, and attendance; Certification fees. Students will have the potential to earn the following certifications: Patient Care Technician, EKG Technician, Phlebotomy.

Pharmacology

- Recommended Grades: 11–12 Credit: 1 Tier 2 **Course #: 8552**
- Prerequisites: Biology and Chemistry. Recommended Prerequisites: A course from the Health and Science Career Cluster.
- The Pharmacology 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.

Pharmacy Technician Practicum

- Recommended Grades: 12 Credit: 2 Tier 2 **Course #: 8554P**
- Prerequisite: Chemistry, Pharmacology, Algebra 2, and Health Science Theory
- Pharmacy Tech provides hands-on experience in a classroom lab setting that will teach the necessary knowledge and skills for an entry-level position in pharmacy or related field. The Kaduceus Pharmacy Technician Program will be taught through a 180-hour program over a 36-week period. A strong emphasis is placed on ethics, accountability, professionalism, and

the individual's commitment to pursue lifelong personal and professional development. Students in the classroom will receive Sterile Products (IV) training prior to completion of the course and are eligible to sit for the National Sterile Products (IV) Certification before graduation. In addition, students who successfully complete the course and graduate will have the opportunity to sit for the Pharmacy Technician Certification Exam (CPhT). The following costs are associated with this course: fingerprinting \$45 and Registration for Pharmacy Tech Board \$55. Students will be required to provide some supplies. This course places a strong emphasis on mathematics. Pharmacy externships are available for select students. Students must pass a background check and drug screen. NOTE: Selection based upon grades, discipline, and attendance; Certification fees. **Note: Students have the potential to earn their Pharmacy Technician certification.**

Principles of Agriculture, Food, and Natural Resources

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8400**
- Prerequisite: None.
- Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations.

Principles of Architecture

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8020**
- Prerequisite: None
- This course provides an overview to the various fields of architecture, interior design, and construction management. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, education, and career information to set and achieve realistic career and educational goals. Job-specific training can be provided through training modules that identify career goals in trade and industry areas. Classroom studies include topics such as safety, work ethics, communication, information technology applications, systems, health, environment, leadership, teamwork, ethical and legal responsibility, employability, and career development and include skills such as problem solving, critical thinking, and reading technical drawings.

Principles of Arts, Audio/Video Technology, and Communications

- Recommended Grade: 9 Credits: 1 Tier 2 **Course #: 8460**
- Prerequisite: None.
- The goal of this course is for the student understands arts, audio/video technology, and communications systems. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

Principles of Business, Marketing and Finance

- Recommended Grades: 9-11 Credit: 1 Tier 2 **Course #: 8492**
- Prerequisite: None
- In this course students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows 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. **Note: Students will have the potential to earn the Microsoft Office Specialist Word certification.**

Principles of Community Services

- Recommended Grades: 9-10 Credit: 1 Tier 2
- Recommended Prerequisite: Principles of Human Services
- The purpose of this course is to introduce high school students to the field of nonprofits/community service, as well as explore career options that assist individuals and families in need. The students will work to understand policies, design community service plans, and develop a portfolio of different community and state resources. Students will also be encouraged to job shadow, volunteer for community service-based experiences, and participate in service-learning opportunities.

Principles of Construction

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8434**
- 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. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment. **Note: Students will have the potential to earn the NCCER Core Level 1 certification**

Principles of Education and Training

- Recommended Grades: 9-10 Credit: 1 Tier 2 **Course #: 8564**
- Prerequisite: None
- This course is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students use self-knowledge as well as educational and career information to analyze various 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 interest area.

Principles of Human Services

- Recommended Grades: 9 Credit: 1 Tier 2 **Course #: 8568**
- Prerequisite: None
- Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services

Principles of Information Technology

- Recommended Grades: 9-10 Credit: 1 Tier 2 **Course #: 8600**
- Prerequisite: None
- In this course students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

Principles of Law, Public Safety, Corrections, and Security

- Recommended Grades: 9–10 Credit: 1 Tier 2 **Course #: 8612**
- Principles of Law, Public Safety, Corrections, and Security 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.

Professional Communications

- Recommended Grade: 9-12 Credit: 0.5 Tier 2 **Course #: 8476**
- Prerequisite: None
- This course blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individual 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.

Robotics 1

- Recommended Grades: 10–11 Credit: 1 Tier 2 **Course #: 8625B**
- Prerequisite: Introduction to Engineering Design
- In Robotics 1, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

Robotics 2 (counts as 4th math)

- Recommended Grades: 10–12 Credit: 1 Tier 2 **Course #: 8627**
- Prerequisite: Robotics 1
- In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students Copyright © Texas Education Agency, 2018. All rights reserved. 122 of 137 Revised 6/19/2018 will build prototypes and use software to test their designs. **Note: This course satisfies a math credit requirement for students on the Foundation High School Program. Students will have the potential to earn the FANUC Robot Operator 1 and Universal Robot certifications.**

Scientific Research and Design (counts as 4th science)

- Recommended Grades: 11–12 Credit: 1 Tier 2 **Course #: 8628**
- Prerequisite: Biology, Chemistry, Integrated Physics, Chemistry (IPC), or Physics and at least two courses in the Engineering Program of Study.
- Scientific Research and Design is a broad-based course designed to allow districts and schools considerable flexibility to develop local curriculum to supplement any program of study or coherent sequence. The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. These components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education. Students must meet the 40% laboratory and fieldwork requirement. Students may take this course with different

course content for a maximum of three credits. **Note: This course satisfies a science credit requirement for students on the Foundation High School Program. This course is the capstone course for the Engineering Program of Study.**

Small Animal Management

- Recommended Grades: 10-12 Credit: 0.5 Tier 2 **Course #: 8404**
- Prerequisite: Principles of Agriculture, Food, & Natural Resources.
- In this course, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds.

Social and Community Services

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8584**
- Recommended Prerequisite: Principles of Human Services
- Social and Community Services will provide an overview of the nonprofit, social, community service, and faith-based organization sector in the United States. The course has an emphasis on professional practices and development of the skills needed to implement service programs. The Social and Community Services course builds on knowledge from Principles of Community Services by providing an in-depth study of social services and how they relate to all other family and community services. Topics covered include the roles of community service providers in meeting human service needs, the sociological factors on clients receiving services, and the exploration of careers.

Social Media Marketing

- Recommended Grades: 9-12 Credit: 0.5 Tier 2 **Course #: 8534**
- Prerequisite: Principles of Business, Marketing, & Finance
- This course 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. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts.

Sports and Entertainment Marketing 1

- Recommended Grades: 9-12 Credit: 0.5 Tier 2 **Course #: 8528**
- Prerequisite: Principles of Business, Marketing and Finance
- This course will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and entertainment. The areas this course will cover include basic marketing concepts, publicity, sponsorship, endorsements, licensing, branding, event marketing, promotions, and sports and entertainment marketing strategies.

Sports and Entertainment Marketing 2

- Recommended Grades: 10-12 Credit: 0.5 Tier 2 **Course #: 8530**
- Prerequisite: Sports and Entertainment Marketing 1
- Sports and Entertainment Marketing II is an advanced course designed to build upon students' prior knowledge of sports and entertainment marketing. Students will develop a thorough understanding of advanced marketing concepts and theories as they relate to the sports and entertainment industries. Students will investigate the components of branding, sponsorships and endorsements, as well as promotion plans needed for sports and entertainment events. The course also supports career development skills and explores career options. Academic skills

(mathematics, science, English, and history/social science) related to the content are a part of this course.

Statistics and Business Decision Making (counts as 4th math)

Course #: 8500

- Recommended Grades: 11-12 Credit: 1 Tier 2
- Prerequisite: Algebra 2
- This course satisfies a math credit requirement.
- Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid. **Note: This course satisfies a science credit requirement for students on the Foundations High School Program.**

Turf Grass Management

- Recommended Grades: 10-12 Credit: 0.5 Tier 2 **Course #: 8428**
- Prerequisite: Principles of Agriculture, Food, & Natural Resources
- Turf Grass Management is designed to develop an understanding of turf grass management techniques and practices.

Veterinary Assistant Practicum

- Recommended Grades: 11–12 Credit: 2 Tier 2 **Course #: 8408P**
- Prerequisite: Equine Science, Small Animal MGMT, or Livestock, Veterinary Medical Applications
- Practicum in Agriculture, Food, and Natural Resources 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 experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources Career Cluster. **Note: Students will have the potential to earn their Certified Veterinary Assistant certification.**

Veterinary Medical Applications 1

- Recommended Grade: 11-12 Credit: 1 Tier 2 **Course #: 8408**
- Prerequisites: Equine Science, Small Animal Management or Livestock, Biology
- Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species.

Video Game Design

- Recommended Grades: 9–12 Credits: 1 Tier 2 **Course #: 8479**
- Prerequisite: Principles of Arts, A/V Technology, and Communications
- Video Game Design will allow students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design.

Video Game Programming

- Recommended Grades: 10 – 12 Credits 1 Tier 2 **Course #: 8480**
- Prerequisites: Video Game Design
- This is a course that engages students with project-based learning. Unique, easy-to-follow material will take the class from simple “drag-n-drop” programming to writing code and

developing original computer games! Very quickly the students will begin to build real working games. They see results right away and along the way, they learn the math and physics concepts used in game development, how the engineering cycle is used to design games, the components of a good game, color theory used in game design, how to create sprites and animation, and so much more.

Virtual Business

- Recommended Grades: 10-12 Credit: 0.5 Tier 2 **Course #: 8510**
- Prerequisite: None
- Virtual Business 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.

Welding 1

- Recommended Grades: 10-12 Credit: 2 Tier 2 **Course #: 8458**
- Prerequisite: Introduction to Welding
- Welding I provide the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success. For safety and liability considerations, limiting course enrollment to 15 students is recommended.

Welding II

- Recommended Grades: 11-12 Credit: 2 Tier 2 **Course #: 8459**
- Prerequisite: Welding 1
- Welding 2 builds on the knowledge and skills developed in Welding 1. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. For safety and liability considerations, limiting course enrollment to 15 students is recommended.

Wildlife, Fisheries, & Ecology Management

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8412**
- Prerequisite: Principles of Agriculture, Food, & Natural Resources
- Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Career and Technical Education – College Credit

Agriculture – AGRI, HALT, AGCR

Horticulture

- Recommended Grades: 10-12 Credit: 1
- CTC Course: AGRI 1415
- TCCN: N/A

- Prerequisite: Acceptance to CTC
- Structure, growth, and development of horticultural plants. Examination of environmental effects, basic principles of reproduction, production methods ranging from outdoor to controlled climates, nutrition, and pest management. Laboratory activities will reinforce the structure, growth, and development of horticultural plants. Examination of environmental effects, basic principles of reproduction, production methods ranging from outdoor to controlled climates, nutrition, and pest management.

Horticulture-Home Gardening

- Recommended Grades: 10-12 Credit: 2
- CTC Course: HALT 1470
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- This course provides the student with the fundamental skills necessary for planting and maintaining vegetable gardens crops, from both a home gardening and a commercial level of production. Specific topics include studies of soils, fertilizer, water requirements, container gardening, hydroponics gardening, pest control, composting, and plant propagation.

Introductory Animal Science

- Recommended Grades: 10-12 Credit: 1
- CTC Course: AGRI 1419
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock. Laboratory activities will reinforce scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock.

Soil Science

- Recommended Grades: 10-12 Credit: 1
- CTC Course: AGCR 2318
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Introduction to the physical, chemical, and biological properties of soils. Topics include the relationship between crops and soils, conservation of soil and water resources, and the economic use of fertilizer.

Anthropology - ANTH

Physical Anthropology

- Recommended Grades: 10-12 Credit: 1
- CTC Course: ANTH 2301
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- The study of human origins and bio-cultural adaptations. Topics may include primatology, genetics, human variation, forensics, health, and ethics in the discipline.

Cultural Anthropology

- Recommended Grades: 10-12 Credit: 1
- CTC Course: ANTH 2351
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- The study of human cultures. Topics may include social organization, institutions, diversity, interactions between human groups, and ethics in the discipline.

Automotive Service and Repair - AUMT

Automotive Brake System

- Recommended Grades: 10-12 Credit: 1.5
- CTC Course: AUMT 1410
- TCCN: N/A
- Prerequisite: Acceptance to CTC, AUMT 1405
- Operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes.

Automotive Climate Control System

- Recommended Grades: 10-12 Credit: 1
- CTC Course: AUMT 1445
- TCCN: N/A
- Prerequisite: Acceptance to CTC, AUMT 1407
- Diagnosis and repair of manual/electronic climate control systems; includes the refrigeration cycle and EPA guidelines for refrigerant handling.

Automotive Drive Train and Axels

- Recommended Grades: 10-12 Credit: 1.5
- CTC Course: AUMT 2413
- TCCN: N/A
- Prerequisite: Acceptance to CTC, AUMT 1405
- A study of automotive clutches, clutch operation devices, manual transmissions/transaxles, and differentials with emphasis on the diagnosis and repair.

Automotive Electrical System

- Recommended Grades: 10-12 Credit: 1
- CTC Course: AUMT 1407
- TCCN: N/A
- Prerequisite: Acceptance to CTC, AUMT 1405
- An overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of charging and starting systems, and electrical accessories. Emphasis on electrical principle schematic diagrams and service manuals.

Automotive Electronics

- Recommended Grades: 10-12 Credit: 1
- CTC Course: AUMT 2337
- TCCN: N/A
- Prerequisite: Acceptance to CTC, AUMT 1407
- Study of electronic principles applied to microcomputers and communication systems. Includes digital fundamentals and use of electronic test equipment.

Automotive Engine Theory

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: AUMT 2305
- TCCN: N/A
- Prerequisite: Acceptance to CTC, AUMT 1405
- Fundamentals of engine operation and diagnosis including lubrication and cooling systems. Emphasis on identification of components, measurements, inspections, and repair methods.

Introduction to Automotive Technology

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: AUMT 1405
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and basic automotive maintenance.

Business Administration and Management – BUSI, MRKG

Business Principles

- Recommended Grades: 10-12 Credit: 1
- CTC Course: BUSI 1301
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- This course provides a survey of economic systems, forms of business ownership, and considerations for running a business. Students will learn various aspects of business, management, and leadership functions; organizational considerations; and decision-making processes. Financial topics are introduced, including accounting, money and banking, and securities markets. Also included are discussions of business challenges in the legal and regulatory environment, business ethics, social responsibility, and international business. Emphasized is the dynamic role of business in everyday life.

Principles of Marketing

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: MRKG 1311
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Introduction to basic marketing functions; identification of consumer and organizational needs; explanation of economic, environmental, psychological, sociological, and global issues; and description and analysis of the importance of marketing research.

Principles of Retailing

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: MRKG 1302
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Introduction to the retailing environment and its relationship to consumer demographics, trends, and traditional/nontraditional retailing markets. The employment of retailing techniques and the factors that influence modern retailing.

Child Development - TECA

Educating Young Children

- Recommended Grades: 10-12 Credit: 1
- CTC Course: TECA 1311
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- An introduction to the education of the young child, including developmentally appropriate practices and programs, theoretical and historical perspectives, ethical and professional responsibilities, and current issues. Course content must be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Association for the Education of Young Children position statement related to developmentally appropriate practices for children from birth through age eight. Requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations; and the course includes a minimum of 16 hours of field experiences.

Child Growth and Development

- Recommended Grades: 10-12 Credit: 1
- CTC Course: TECA 1354
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- This course is a study of the physical, emotional, social, and cognitive factors impacting growth and development of children through adolescence.

Communications/Journalism – COMM

Introduction to Mass Communications

- Recommended Grades: 10-12 Credit: 1
- CTC Course: COMM 1307
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Survey of basic content and structural elements of mass media and their functions and influences on society.

Computer Information Technology Systems: BCIS, CETT, COSC, CPMT, IMED, ITNW, ITSC, ITSE, ITSW, ITSY

Business Computer Applications

- Recommended Grades: 10-12 Credit: 1
- CTC Course: BCIS 1305
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Introduces and develops foundational skills in applying essential and emerging business productivity information technology tools. The focus of this course is on business productivity software applications, including word processing, spreadsheets, databases, presentation graphics, data analytics, and business-oriented utilization of the internet. (BCIS 1305 is included in the Business Field of Study.)

CCNA 1: Introduction to Networks

- Recommended Grades: 10-12 Credit: 1
- CTC Course: ITCC 1314
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

Firewalls and Network Security

- Recommended Grades: 10-12 Credit: 3.0
- CTC Course: ITSY 2401
- TCCN: N/A
- Prerequisite: Acceptance to CTC, ITSC 1316 or ITNW 1325 or ITCC 1314 or concurrent enrollment with either.
- Identify elements of firewall design, types of security threats and responses to security attacks. Use Best Practices to design, implement, and monitor a network security plan. Examine security incident postmortem reporting and ongoing network security activities.

Fundamentals of Networking Technologies

- Recommended Grades: 10-12 Credit: 2.0
- CTC Course: INTW 1325
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.

Implementing and Supporting Servers

- Recommended Grades: 10-12 Credit: 2
- CTC Course: ITNW 1454
- TCCN: N/A
- Prerequisite: Acceptance to CTC, 12 hours of CITS coursework with at least 9 hours of Network coursework (any combination of ITNW and/or ITCC)
- Implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment.

Information Technology Security

- Recommended Grades: 10-12 Credit: 3
- CTC Course: ITSY 1342
- TCCN: N/A
- Prerequisite: Acceptance to CTC, 3 hours of Network coursework (ITNW or ITCC) or concurrent enrollment
- Instruction in security for network hardware, software, and data, including physical security; backup procedures; relevant tools; encryption; and protection from viruses.

Introduction to Computer Programming

- Recommended Grades: 10-12 Credit: 1
- CTC Course: COSC 1315
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Introduction to computer programming for solving a variety of problems. This course is intended for non-computer science and non-computer engineering majors. Emphasis on the fundamentals of design, development, testing, implementation, and documentation of computer programs. Includes problem solving with structured techniques and algorithms using pseudo code and/or graphical representations.

Introduction to Computing

- Recommended Grades: 10-12 Credit: 1
- CTC Course: COSC 1301
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Overview of computer systems—hardware, operating systems, and microcomputer application software, including the Internet, word processing, spreadsheets, presentation graphics, and databases. Current issues such as the effect of computers on society, and the history and use of computers in business, educational, and other modern settings are also studied. This course is not intended to count toward a student's major field of study in business or computer science.

Linux Installation and Configuration

- Recommended Grades: 10-12 Credit: 2
- CTC Course: ITSC 1316
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Introduction to Linux operating system. Includes Linux installation, basic administration, utilities and commands, upgrading, networking, security, and application installation. Emphasizes hands-on setup, administration, and management of Linux.

Network Administration

- Recommended Grades: 10-12 Credit: 2
- CTC Course: ITNW 1316
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- An introduction to the basic concepts of network administration.

Personal Computer Hardware

- Recommended Grades: 10-12 Credit: 1
- CTC Course: ITSC 1325
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting.

Construction Technology - CBFM

Floor Systems

- Recommended Grades: 10-12 Credit: 1
- CTC Course: CRPT 1423
- TCCN: N/A
- Prerequisite: Acceptance to CTC, CRPT 1429
- An introduction to common floor systems. Includes component identification; construction of a floor system; safe work practices; and the use and maintenance of tools and equipment.

Interior and Exterior Painting and Refinishing

- Recommended Grades: 10-12 Credit: 3
- CTC Course: CBFM 1334
- TCCN: N/A
- Prerequisite: Acceptance to CTC, CRPT 1429
- Interior and exterior painting and refinishing for commercial and residential applications.
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Introduction to Carpentry

- Recommended Grades: 10-12 Credit: 1
- CTC Course: CRPT 1429
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- An introduction to the carpentry trade including safety, tools, equipment, terminology, and methods.

Residential Construction Plumbing I

- Recommended Grades: 10-12 Credit: 1
- CTC Course: PFPB 2409
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Skill development in the procedures and techniques employed by a plumber in the rough-in and top-out stages of a new home or the remodeling of an older home.

Residential Construction Plumbing II

- Recommended Grades: 10-12 Credit: 2
- CTC Course: PFPB 2445
- TCCN: N/A
- Prerequisite: Acceptance to CTC, PFPB 2409
- Installation of residential plumbing fixtures used in single- and multi-family housing.

Residential Wiring

- Recommended Grades: 10-12 Credit: 2
- CTC Course: ELPT 1429
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Wiring methods for single family and multi-family dwellings. Includes load calculations, service entrance sizing, proper grounding techniques, and associated safety procedures.

Roof Systems

- Recommended Grades: 10-12 Credit: 3
- CTC Course: CRPT 1411
- TCCN: N/A
- Prerequisite: Acceptance to CTC, CRPT: 1429 & 1415
- Principles of design and construction of a roof system incorporating gable, hip, valley, and intersections. Emphasis given to safe work practices and the use and maintenance of tools and equipment.

Walls Systems

- Recommended Grades: 10-12 Credit: 2
- CTC Course: CRPT 1415
- TCCN: N/A
- Prerequisite: Acceptance to CTC, CRPT: 1429 & 1423
- Identification of components; construction of wall systems; safe work practices; and the use and maintenance of tools and equipment.

Criminal Justice - CRIJ

Court Systems and Practices

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: CRIJ 1306
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- This course is a study of the court system as it applies to the structures, procedures, practices and sources of law in American courts, using federal and Texas statutes and case law.

Introduction to Criminal Justice

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: CRIJ 1301
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- This course provides a historical and philosophical overview of the American criminal justice system, including the nature, extent, and impact of crime; criminal law; and justice agencies and processes.

Diesel - DEMR

Shop Safety and Procedures

- Recommended Grades: 10-12 Credit: 1.5
- CTC Course: DEMR 1301
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- A study of shop safety, rules, basic shop tools, and test equipment.

Diesel Engine 1

- Recommended Grades: 10-12 Credit: 1.5
- CTC Course: DEMR 1306
- TCCN: N/A

- Prerequisite: Acceptance to CTC
- An introduction to the basic principles of diesel engines and systems.

Diesel Engine Testing and Repair

- Recommended Grades: 10-12 Credit: 1.5
- CTC Course: DEMR 1410
- TCCN: N/A
- Prerequisite: Acceptance to CTC, DEMR 1405
- An introduction to testing and repairing diesel engines including related systems specialized tools.

Basic Brake Systems

- Recommended Grades: 10-12 Credit: 1
- CTC Course: DEMR 1417
- TCCN: N/A
- Prerequisite: Acceptance to CTC, DEMR 1405
- Basic principles of brake systems of diesel-powered equipment. Emphasis on maintenance, repairs, and troubleshooting.

Basic Electrical Systems

- Recommended Grades: 10-12 Credit: 1
- CTC Course: DEMR 1405
- TCCN: N/A
- Prerequisite: Acceptance to CTC, DEMR 1306
- Basic principles of electrical systems of diesel-powered equipment with emphasis on starters, alternators, and batteries.

Basic Hydraulics

- Recommended Grades: 10-12 Credit: 1.5
- CTC Course: DEMR 1416
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Fundamentals of hydraulics including components and related systems.

Heating Ventilation and Air Conditioning, Troubleshooting and Repair

- Recommended Grades: 10-12 Credit: 1
- CTC Course: DEMR 1423
- TCCN: N/A
- Prerequisite: Acceptance to CTC, DEMR 1425
- Introduction to heating, ventilation, and air conditioning theory, testing, and repair. Emphasis on refrigerant reclamation, safety procedures, specialized tools, and repairs.

Power Train 2

- Recommended Grades: 10-12 Credit: 1
- CTC Course: DEMR 1447
- TCCN: N/A
- Prerequisite: Acceptance to CTC

- Continuation of fundamentals and theory of power train systems. Emphasis on disassembly, inspection, and repair of power train components.

Education - EDUC

Introduction to Special Populations

- Recommended Grades: 10-12 Credit: 2
- CTC Course: EDUC 2301
- TCCN: N/A
- Prerequisite: Acceptance to CTC, EDUC 1301
- An enriched, integrated pre-service course and content experience that: provides an overview of schooling and classrooms from the perspectives of language, gender, socioeconomic status, ethnic and academic diversity, and equity with an emphasis on factors that facilitate learning; provides students with opportunities to participate in early field observations of P-12 special populations; should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards; must include a minimum of 16 contact hours of field experience in P-12 classrooms with special populations.

Introduction to Teaching Profession 1301

- Recommended Grades: 10-12 Credit: 1
- CTC Course: EDUC 1301
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- An enriched, integrated pre-service course and content experience that: provides active recruitment and institutional support of students interested in a teaching career, especially in high need fields; provides students with opportunities to participate in early field observations at all levels of P-12 schools with varied and diverse student populations; provides students with support from college and school faculty, preferably in small cohort groups, for the purpose of introduction to and analysis of the culture of schooling and classrooms; course content should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards; and course must include a minimum of 16 contact hours of field experience in P-12 classrooms.

Learning Frameworks

- Recommended Grades: 9 Credit: 0.5
- CTC Course: EDUC 1100
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- A study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned.

Engineering - ENGR

Introduction to Engineering

- Recommended Grades: 10-12 Credit: 1
- CTC Course: ENGR 1201
- TCCN: N/A
- Prerequisite: Acceptance to CTC, MATH 1414
- Introduction to engineering as a discipline and a profession. Includes instruction in the application of mathematical and scientific principles to the solution of practical problems for the benefit of society.

Heating and Air Conditioning - HART

Air Conditioning Control Principles

- Recommended Grades: 10-12 Credit: 1
- CTC Course: HART 1403
- TCCN: N/A
- Prerequisite: Acceptance to CTC, HART 1401 and HART 1407
- A basic study of HVAC and refrigeration controls; troubleshooting of control components; emphasis on use of wiring diagrams to analyze high and low voltage circuits; a review of Ohm's law as applied to air conditioning controls and circuits.

Air Conditioning Installation and Startup

- Recommended Grades: 10-12 Credit: 1
- CTC Course: HART 2438
- TCCN: N/A
- Prerequisite: Acceptance to CTC, HART 1407
- A study of air conditioning system installation, refrigerant piping, condensate disposal, and air cleaning equipment with emphasis on startup and performance testing.

Basic Electricity for HVAC

- Recommended Grades: 10-12 Credit: 1
- CTC Course: HART 1401
- TCCN: N/A
- Prerequisite: Acceptance to CTC, department consent
- Principles of electricity as required by HVAC, including proper use of test equipment, electrical circuits, and component theory and operation.

Gas and Electric Heating

- Recommended Grades: 10-12 Credit: 1
- CTC Course: HART 1445
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Co-requisite HART 1401
- Study of the procedures and principles used in servicing heating systems including gas fired furnaces and electric heating systems.

Heat Pumps

- Recommended Grades: 10-12 Credit: 1
- CTC Course: HART 2449
- TCCN: N/A
- Prerequisite: Acceptance to CTC, HART: 1401, 1403, 1407
- A study of heat pumps, heat pump control circuits, defrost controls, auxiliary heat, air flow, and other topics related to heat pump systems.

Refrigeration Principles

- Recommended Grades: 10-12 Credit: 1
- CTC Course: HART 1407
- TCCN: N/A
- Prerequisite: Acceptance to CTC, department consent
- An introduction to the refrigeration cycle, heat transfer theory, temperature/pressure relationship, refrigerant handling, refrigeration components and safety.

Residential Air Conditioning

- Recommended Grades: 10-12 Credit: 1
- CTC Course: HART 1341
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- A study of components, applications, and installation of mechanical air conditioning systems including operating conditions, troubleshooting, repair, and charging of air conditioning systems.

Hospitality Management – CHEF, HAMG, IFWA, PSTR, RSTO, TRVM

Basic Food Preparation

- Recommended Grades: 10-12 Credit: 1
- CTC Course: CHEF 1301
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- A study of the fundamental principles of food preparation and cookery to include Brigade System, cooking techniques, material handling, heat transfer, sanitation, safety, nutrition, and professionalism. National Restaurant Association (NRA) Food Production Certificate Examination.

Cake Baking and Production

- Recommended Grades: 10-12 Credit: 1
- CTC Course: PSTR 1302
- TCCN: N/A
- Prerequisite: Acceptance to CTC, PSTR 1301
- Principles and techniques of cake production. Emphasizes ingredient identification, functions, mixing, and baking.

Fundamentals of Baking

- Recommended Grades: 10-12 Credit: 1
- CTC Course: PSTR 1301
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Fundamentals of baking including dough, quick breads, pies, cakes, cookies, and tarts. Instruction in flours, fillings, and ingredients. Topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the evaluation of baked products. National Restaurant Association (NRA) Food Production Certificate Examination.

Garde Manager

- Recommended Grades: 10-12 Credit: 1
- CTC Course: CHEF 1310
- TCCN: N/A
- Prerequisite: Acceptance to CTC, CHEF1301
- A study of cold foods and garnishes. Emphasis on design, techniques, and display of fine foods.

Intermediate Food and Preparation

- Recommended Grades: 10-12 Credit: 1
- CTC Course: CHEF 2301
- TCCN: N/A
- Prerequisite: Acceptance to CTC, CHEF 1301
- Continuation of previous food preparation course. Topics include the concept of pre-cooked food items, as well as scratch preparation. Covers full range of food preparation techniques.

Introduction to the Hospitality Industry 1321

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: HAMG 1321
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- An exploration of the elements and career opportunities within the multiple segments of the hospitality industry.

Menu Management

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: RSTO 1321
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- A study of the food service principles involved in menu planning, layout, and evaluation for a variety of types of facilities and service methods. Emphasis on analysis of menu profitability, modification, commodity use, and other activities generated by the menu.

Nutrition for the Food Service Professional

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: IFWA 1318
- TCCN: N/A
- Prerequisite: Acceptance to CTC

- An introduction to nutrition including nutrients, digestion and metabolism, menu planning, recipe modification, dietary guidelines and restrictions, diet and disease, and healthy cooking techniques.

Principles of Food and Beverage Operations

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: HAMG 2301
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- An overview of food and beverage management in various hospitality environments. Emphasizes cost controls from procurement to marketing and sales.

Principles of Healthy Cuisine

- Recommended Grades: 10-12 Credit: 1
- CTC Course: CHEF 1302
- TCCN: N/A
- Prerequisite: Acceptance to CTC, CHEF 1301
- Introduction to the principles of planning, preparation, and presentation of nutritionally balanced meals. Alternative methods and ingredients will be used to achieve a healthier cooking style.

Sanitation and Safety

- Recommended Grades: 10-12 Credit: 1
- CTC Course: CHEF 1305
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- A study of personal cleanliness; sanitary practices in food preparation; causes, investigation, control of illness caused by food contamination (Hazard Analysis Critical Control Points); and work place safety standards.

Saucier

- Recommended Grades: 10-12 Credit: 1
- CTC Course: CHEF 2302
- TCCN: N/A
- Prerequisite: Acceptance to CTC, CHEF 1301
- Instruction in the preparation of stocks, soups, classical sauces, contemporary sauces, accompaniments, and the pairing of sauces with a variety of foods.

NURSING - HPRS

Medical Terminology I

- Recommended Grades: 10-12 Credit: 1
- CTC Course: HITT 1305
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Study of medical terms through word origin and structure. Introduction to abbreviations and symbols, surgical and diagnostic procedures, and medical specialties.

Pharmacology for Health Professionals

- Recommended Grades: 10-12 Credit: 1
- CTC Course: HPRS 2300
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- A study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages.

Paramedicine - EMSP

Clinical-Emergency Medical Technology/Technician (Seniors Only)

- Recommended Grades: 10-12 Credit: 1
- CTC Course: EMSP 1160
- TCCN: N/A
- Prerequisite: Acceptance to CTC, concurrent enrollment in EMSP 1401
- A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Upon successful completion of this course and EMSP 1401, students are eligible to take the exam to be certified as an Emergency Medical Technician. This course is only offered with EMSP 1401. See also admissions requirements.

Emergency Medical Technician-Basic

- Recommended Grades: 10-12 Credit: 1
- CTC Course: EMSP 1401
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Co-requisite: EMSX 1401
- Preparation for certification as an Emergency Medical Technician (EMT). Upon successful completion of this course and EMSP 1160, students are eligible to take the exam to be certified as an Emergency Medical Technician by the Texas Department of State Health Services and/or National Registry of EMT. Prerequisite: Current CPR certification.

Psychology - PSYC

Child Psychology

- Recommended Grades: 10-12 Credit: 1
- CTC Course: PSYC 2308
- TCCN: N/A
- Prerequisite: Acceptance to CTC, Pass TSIA Reading
- This course will address psychological development from conception through middle childhood with references to physical, cognitive, social and personality changes. Students will examine the interplay of biological factors, human interaction, social structures and cultural forces in development.

Life Span Growth and Development

- Recommended Grades: 10-12 Credit: 1
- CTC Course: PSYC 2314
- TCCN: N/A

- Prerequisite: Acceptance to CTC, Pass TSIA Reading
- Life-Span Growth and Development is a study of social, emotional, cognitive and physical factors and influences of a developing human from conception to death.

Robotics - RBTC

Programmable Logic Controllers

- Recommended Grades: 10-12 Credit: 1
- CTC Course: RBTC 1301
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- A study in programmable logic controllers (PLC). Topics include processor units, numbering systems, memory organization, relay type devices, timers, counters, data manipulators, and programming.

Robotics

- Recommended Grades: 10-12 Credit: 1
- CTC Course: RBTC 1343
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- This course will identify and discuss safety, installation, and maintenance concepts; describe the various power sources used in robotics; identify the types of robot interface systems; explain and demonstrate programming methods and control devices; and demonstrate the types and uses of end effectors.

Robot Application, Set-up, and Testing

- Recommended Grades: 10-12 Credit: 1
- CTC Course: RBTC 2345
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- A capstone course that provides the student with laboratory experience in the installation, set-up, and testing of robotic cells. Topics include maintenance.

Robotic Mechanism

- Recommended Grades: 10-12 Credit: 1
- CTC Course: RBTC 1351
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- The application of principles and the calculation of practical problems involving four bar linkages, cams, gears, and gear trains. Topics include vector quantities, angular displacement, motion concepts, velocities, and motions.

Robot Programming and Diagnostics

- Recommended Grades: 10-12 Credit: 1
- CTC Course: RBTC 2339
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Emphasis on the programming of industrial robots, the development of programming techniques, and the diagnosis of faults in systems.

Special Topics in Robotics Technology/Technician

- Recommended Grades: 10-12 Credit: 1
- CTC Course: RBTC 1391
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or
- occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to
- improve student proficiency.

Sociology - SOCI

Marriage and The Family

- Recommended Grades: 10-12 Credit: 0.5
- CTC Course: SOCI 2301
- TCCN: N/A
- Prerequisite: Acceptance to CTC, Pass TSIA Reading
- Sociological and theoretical analysis of the structures and functions of the family, the varied cultural patterns of the American family, and the relationships that exist among the individuals within the family, as well as the relationships that exist between the family and other institutions in society.

Welding - WLDG

Advanced Pipe Welding

- Recommended Grades: 10-12 Credit: 1
- CTC Course: WLDG 2453
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- Advanced topics involving welding of pipe using the shielded metal arc welding (SMAW) process. Topics include electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 5G and 6G using various electrodes.

Intermediate Shielded Metal Arc Welding

- Recommended Grades: 10-12 Credit: 1
- CTC Course: WLDG 1457
- TCCN: N/A
- Prerequisite: Acceptance to CTC, WLDG 1428
- A study of the production of various fillets and groove welds. Preparation of specimens for testing in various positions.

Introduction to Blueprint Reading for Welders

- Recommended Grades: 10-12 Credit: 1
- CTC Course: WLDG 1313
- TCCN: N/A
- Prerequisite: Acceptance to CTC, WLDG 1323

- A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description, and welding processes. Includes systems of measurement and industry standards. Also includes interpretation of plans and drawings used by industry to facilitate field application and production.

Introduction to Oxy-Fuel Welding and Cutting

- Recommended Grades: 10-12 Credit: 1
- CTC Course: WLDG 1425
- TCCN: N/A
- Prerequisite: Acceptance to CTC, WLDG 1323
- An introduction to oxy-fuel welding and cutting, safety, set up and maintenance of oxy-fuel welding, and cutting equipment and supplies.

Introduction to Pipe Welding

- Recommended Grades: 10-12 Credit: 1
- CTC Course: WLDG 1435
- TCCN: N/A
- Prerequisite: Acceptance to CTC, WLDG 1457
- An introduction to welding of pipe using the shielded metal arc welding process (SMAW), including electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 1G and 2G using various electrodes.

Introduction to Shielded Metal Arc Welding

- Recommended Grades: 10-12 Credit: 1
- CTC Course: WLDG 1428
- TCCN: N/A
- Prerequisite: Acceptance to CTC, WLDG: 1323 & 1425
- An introduction to the shielded metal arc welding process. Emphasis is placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions.

Welding Safety, Tools, and Equipment

- Recommended Grades: 10-12 Credit: 1
- CTC Course: WLDG 1323
- TCCN: N/A
- Prerequisite: Acceptance to CTC
- An introduction to welding careers, equipment, and safety practices, including OSHA standards for industry.

FINE ARTS

AP Studio Art: Drawing Portfolio

- Recommended Grades: 11-12 Credit: 1 Tier 4 **Course #: 8132**
- The Drawing Portfolio is intended to address a very broad interpretation of drawing issues and media. Line quality, light, and shade, rendering of form, composition, surface manipulation, the illusion of depth and mark-making are drawing issues that can be addressed through a variety of means, which could include painting, printmaking, mixed media, etc. All pieces must be completed by the 1st of May and sent to College Board.

AP Studio Art: Three-Dimensional Design Portfolio

- Recommended Grades: 11-12 Credit: 1 Tier 4 **Course #: 8129**
- Prerequisite: One Art 3 Level course
- The Sculpture 3-D Design Portfolio should demonstrate mastery of multiple media and the Elements and Principles of Sculptural Order. The student will use a variety of media to include stone, wood, plaster, clay, paper, paper mâché, tape, concrete, and various mixed media combinations. The intent is to illustrate, through 3-D sculptural pieces, mastery of the media and design. The portfolio is divided into three sections: Quality, Breath and Concentration. Portfolio is submitted totally online. All pieces must be completed by the 1st of May and sent to the College Board.

AP Studio Art: Two-Dimensional Design Portfolio

- Recommended Grades: 11-12 Credit: 1 Tier 4 **Course #: 8130**
- Prerequisite: One Art 3 Level course
- In the 2-D design portfolio, you should demonstrate your understanding of design principles as applied to a two-dimensional surface. The principles of design (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, and figure/ground relationship) can be articulated through the visual elements (line, shape, color, value, texture, space). Any 2-D process or medium may be submitted, including, but not limited to graphic design, digital imaging, photography, collage, fabric design, weaving, illustration, painting, printmaking, etc. Videotapes, three-dimensional works, and photocopies of work in other media may not be submitted. These portfolios must be submitted to the College Board by May 1st to obtain AP credit.

Art 1

- Recommended Grades: 8-12 Credit: 1 Tier 2 **Course #: 8120**
- Prerequisite: None
- This is a basic course that provides a survey and systematic presentation of various art processes, procedures, theories, and historical developments. The purpose of this course is to enlighten the student to art structure in the terms of providing a strong foundation in various media, design, art history, and art vocabulary. This course is a prerequisite for all Level 2 art students. Partial state credit may not be awarded for this course. The student must earn 1 full credit to receive any state credit.

Art 2 Drawing 1

- Recommended Grades: 9-11 Credit: 1 Tier 2 **Course #: 8121**
- Prerequisite: Art 1
- The student will explore the elements of art and the principles of design through composition, abstraction, and expression. The student will further explore contour, gesture, and other techniques with an emphasis on representation of volume and the human body (skeletal, muscle, and skin tones). The student will experiment with a variety of papers, cardboard, and fabrics combined with charcoal, pastels, pen and ink, brushes, felt tip, and mixed media

Art 2 Painting 1

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8122**
- Prerequisite: Art 1
- The student will analyze various styles of paintings, including contemporary artists. Concepts of design will be strengthened through the application of the elements and principles of design. The student will experiment with a variety of techniques determined by the choice of materials such as tempera, synthetic media, watercolor, latex, and enamels on various surfaces such as cardboard, poster board, canvas, masonite, cloth, and other appropriate art paper/surfaces.

Art 2 Sculpture 1

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8123**
- Prerequisite: Art 1
- Student will explore positive-negative space, emphasizing additive and subtractive processes through continuing the exploration of the elements of art and the principles of design with the emphasis on form. The student will explore further techniques determined by a choice of materials while experimenting with wood, foam, clay, paper mache, plaster and wire.

Art 3 Drawing 2

- Recommended Grades: 9-11 Credit: 1 Tier 2 **Course #: 8124**
- Prerequisite: Art 2 Drawing
- This level in Draw III requires the student to have former knowledge and ability to draw. The student will create artworks that demonstrate their knowledge of the art elements and principles of design. The student will continue to study method and techniques of various artists throughout the world and create art works from the various regions. This course offers an emphasis in concept/thematic based art and symbolism in original works. The student will demonstrate an understanding of value to model a two-dimensional shape as a 3D form. There is an emphasis in this course on compositional considerations, as well as in depth study of anatomy and the human figure. The students through creative expression, will explore different paper quality and types, as well as various media such as graphite, ebony, color pencil, charcoal, chalk, pen & ink, and clay.

Art 3 Painting 2

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8125**
- Prerequisite: Art 2 Painting
- The student will analyze various styles of paintings, including contemporary artists. Concepts of design will strengthen using elements of materials. The student will explore tempera, synthetic media, watercolor, latex, and enamels on various surfaces such as cardboard, poster board, Masonite, canvas, cloth, and other art.

Art 3 Sculpture 2

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8126**
- Prerequisite: Art 2 Sculpting
- Student will continue to strengthen design skills with emphasis on form and space, using techniques determined by student/teacher choices. The student will use materials appropriate to exploring large, massive forms such as concrete, slate block, vermiculite, soapstone, metal and wood **Prerequisite and teacher recommendation; Supplies will cost approx. \$25.00.

Concert Bands, Flag Corp, and Marching Band 1-4 (Recommendation from Band Director)

- Recommended Grades: 9-12 Credit: 0.5 per semester Tier 2
- Prerequisite: Audition and teacher signature required

- First semester of marching band years 1 and 2 will count as PE credit
- Membership is by audition for those students who demonstrate a high level of proficiency (music grade 5) of their instrument and are academically qualified for UIL activities. Students must also participate in the marching band during the fall semester. UIL, Solo and Ensemble is required for all levels. Nightly rehearsals in the fall and one-hour sectional rehearsal in spring are to be expected. Private study is encouraged. PE credit is given for the fall semester. Fine arts credit is given for the spring semester.

Choral Ensembles 1-4 (Recommendation from Choir Director)

- Recommended Grades: 9-12 Credit: 0.5 per semester Tier 2
- Prerequisite: Audition required
- Ensembles:
- Students will study vocal technique, choral technique, music theory, sight-singing, music history and literature. Attendance to all performances, after school rehearsals, and UIL/TMEA competitions are required.

Music Theory 1

- Recommended Grades: 10-12 Credit: 1 Tier 3 **Course #: 8100H**
- Prerequisite: None
- This course is intended for students who wish to begin academic study in music. It lays the foundation for skills further developed in the AP Music Theory course and exam. It introduces concepts and skills pertaining to understanding melody, harmony, and rhythm of Common Practice (18th Century) Era music. These skills include notation, scales, intervals, chords, ear-training, sight-singing, and music history.

AP Music Theory

- Recommended Grades: 12 Credit: 1 Tier 4
- Prerequisite: One credit of Music instruction and must be planning to graduate in the Spring of the current school year.
- This course is for students who wish to continue their study of music. It extends knowledge and skills learned in other music classes, including advanced notation, scales, melodic and harmonic intervals, chord structure, part writing, ear training, sight singing and keyboard skills. Students will be required to take the AP exam.

Principles of Dance 1-4

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8091-4**
- Prerequisite: None
- Does not count for PE credit
- This course emphasizes beginner/basic dance technique, proper stretching and body alignment, dance history, choreography, and terminology. A variety of styles are taught to cover the evolution of dance such as ballet, modern, tap, jazz, hip hop, lyrical, folk, and social. Various routines are learned and performed throughout the semester with an opportunity to be in the Copperette Spring Show. Each student will be required to purchase dance attire such as dance pants, etc.

Technical Theatre 1-3

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8011-3**
- Prerequisite: Theater Arts 1
- This course covers basic skills in stagecraft design and construction. Students must work on and/or serve on the crew for at least one production per semester. Students explore these

topics in greater depth each year. Students must see at least one live performance per semester.

Theatre Arts 1-4

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 8001-4**
- Prerequisite: None
- This course covers the basics of theatre, history of the theater, fundamentals of stagecraft, makeup, costuming, lighting, and acting techniques, including voice, character, and concentration. Students explore these topics in greater depth each year. Students must see at least one live performance per

Theatre Productions 1-3

- Recommended Grades: 10-12 Credit: 1 Tier 2 **Course #: 8021-3**
- Prerequisite: Theater Arts 1
- This course involves the actual production of a selected play beginning with casting, follows through the rehearsal process, and ends with the public performance followed by a written critique/self-evaluation. Students must attend at least one live performance per semester and are required to participate in the Student Directed One Act Play Festival in the spring semester. Students explore these topics in greater depth each year.

Fine Arts – College Credit

Art History 1

- Recommended Grades: 10-12 Credit: 1 Tier 4
- CTC Course: ARTS 1303
- TCCN: ARTS 1303 (Prehistoric to the 14th Century)
- Prerequisite: Acceptance to CTC
- A chronological analysis of the historical and cultural contexts of the visual arts from prehistoric times to the 14th century.

Art History 2 1304

- Recommended Grades: 10-12 Credit: 1 Tier 4
- CTC Course: ARTS 1304
- TCCN: ARTS 1304 (14th Century to the Present)
- Prerequisite: Acceptance to CTC
- A chronological analysis of the historical and cultural contexts of the visual arts from the 14th century to the present day.

Film Appreciation

- Recommended Grades: 10-12 Credit: 0.5 Tier 4
- CTC Course: DRAM 2366
- TCCN: DRAM 2366
- Prerequisite: Acceptance to CTC
- Survey and analyze cinema including history, film techniques, production procedures, selected motion pictures and cinema's impact on and reflection of society.

Fine Arts Appreciation

- Recommended Grades: 10-12 Credit: 1 Tier 4
- CTC Course: HUMA 1315
- TCCN: HUMA 1315
- Prerequisite: Acceptance to CTC

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

History of Theater I

- Recommended Grades: 10-12 Credit: 0.5 Tier 4
- CTC Course: DRAM 2361
- TCCN: DRAM 2361
- Prerequisite: Acceptance to CTC
- Study of the history of theatre from primitive times through the Renaissance.

Music Appreciation

- Recommended Grades: 10-12 Credit: 1 Tier 4
- CTC Course: MUSI 1306
- TCCN: MUSI 1306
- Prerequisite: Acceptance to CTC
- This course is designed for the general college student. It emphasizes intelligent, directed listening to music with attention focused on the materials, the forms and the periods and styles of music. Course work will also cover the relation of music to other areas of cultural development.

Music Literature

- Recommended Grades: 10-12 Credit: 1 Tier 4
- CTC Course: MUSI 1307
- TCCN: MUSI 1307
- Prerequisite: Acceptance to CTC
- An in-depth study of the music, literature, and history from the 15th through the 21st centuries. Emphasis will be placed on principle forms and composers of the literature of those historical periods. This course is designed for music majors but is also appropriate for any student who has prior musical knowledge.

Music Theory 1 1311

- Recommended Grades: 10-12 Credit: 1 Tier 4
- CTC Course: MUSI 1311
- TCCN: MUSI 1311
- Prerequisite: Acceptance to CTC, Placement exam by the instructor. This course should be taken concurrently with MUSI 1116.
- A continuation of Music Fundamentals. Harmonic progressions, seventh chords, cadences, pentatonic, and modal scales with an introduction to four-part writing. This course is required for music majors.

Music Theory 2 1312

- Recommended Grades: 10-12 Credit: 1 Tier 4
- CTC Course: MUSI 1312
- TCCN: MUSI 1312
- Prerequisite: Acceptance to CTC, MUSI 1311 or placement exam by the instructor. This course should be taken concurrently with MUSI 1117.
- A continuation of Music Theory I with an introduction to four-part writing and analysis of music. This course is required for music majors.

Theater Appreciation

- Recommended Grades: 10-12 Credit: 1 Tier 4
- CTC Course: DRAM 1310
- TCCN: DRAM 1310
- Prerequisite: Acceptance to CTC
- Survey of theater including its history, dramatic works, stage techniques, production procedures, and relation to other art forms. Participation in productions may be required.

WORLD LANGUAGES

German 1

- Recommended Grades: 7-11 Credit: 1 Tier 2 **Course #: 7940**
- Prerequisite: None
- Level 1 stresses the acquisition of vocabulary, grammar, and pronunciation necessary to comprehend and communicate at the “beginner level”. Instruction will cover all five domains: Listening, Speaking, Reading, Writing, and Culture. Active participation and culturally relevant projects are required both semesters.

German 2

- Recommended Grades: 8-12 Credit: 1 Tier 2 **Course #: 7950**
- Prerequisite: German 1
- Level 2 is a review and extension of the skills acquired at level 1 with a continued emphasis on functional communication. Instruction will cover all five domains: Listening, Speaking, Reading, Writing, and Culture. Active participation and culturally relevant projects are required both semesters.

German 3

- Recommended Grades: 9-12 Credit: 1 Tier 2 **Course #: 7960**
- Prerequisite: German 2
- Level 3 is an extension of the skills acquired at level 2 with a continued emphasis on functional communication. Instruction will cover all five domains: Listening, Speaking, Reading, Writing, and Culture. Students will be expected to communicate at the “intermediate level”. Active participation and culturally relevant projects are required both semesters.

AP Language and Culture German – German 4

- Recommended Grades: 10-12 Credit: 1 Tier 4 **Course #: 7975**
- Prerequisite: German 3
- Level 4 AP is an extension and application of the skills acquired at levels 1-3. Instruction will include all five domains: Listening, Speaking, Reading, Writing, and Culture. Students will be expected to communicate at the “intermediate advanced” level and extend their mastery of the target language through independent literary study. Active participation and culturally relevant projects in the target language are required both semesters. Students will be required to take the AP exam and make a predetermined score to receive the weighted GPA.

German 5

- Recommended Grades: 11-12 Credit: 1 Tier 3 **Course #: 7980**
- Prerequisite: AP German 4
- Level 5 will continue the application of the skills required at levels 1-4 with a continued emphasis on functional communication. Instruction will cover all five domains: Listening, Speaking, Reading, Writing, and Culture.

Spanish 1

- Recommended Grades: 7–11 Credit: 1 Tier 2 or 3 **Course #: 7900**
- Prerequisite: None
- Level 1 stresses the acquisition of vocabulary, grammar, and pronunciation necessary to comprehend and communicate at the “beginner level”. Instruction will cover all five domains: Listening, Speaking, Reading, Writing, and Culture. Active participation and culturally relevant projects are required both semesters.

Spanish 2

- Recommended Grades: 8-12 Credit: 1 Tier 2 or 3 **Course #: 7910**
- Prerequisite: Spanish 1
- Level 2 is a review and extension of the skills acquired at level 1 with a continued emphasis on functional communication. Instruction will cover all five domains: Listening, Speaking, Reading, Writing, and Culture. Active participation and culturally relevant projects are required both semesters.

Spanish 3

- Recommended Grade: 9-12 Credit: 1 Tier 3 **Course #: 7924**
- Prerequisites: Spanish 2
- This course is an extension of the skills acquired at Level 2 with a continued emphasis on functional communication. In addition, students will extend their grasp of the target language through independent writing and reading assignments. Active participation and culturally relevant projects are required both semesters.

Spanish 4

- Recommended Grade: 11-12 Credit: 1 Tier 3 **Course #: 7934**
- Prerequisite: Spanish 3
- This course is an extension and application of the skills acquired at levels 1-3. Instruction will include all five domains: Listening, Speaking, Reading, Writing, and Culture. Students will be expected to communicate at the “intermediate advanced” level and extend their mastery of the target language through independent literary study. Active participation and culturally relevant projects in the target language are required both semesters.

World Languages – College Credit

Beginning Spanish I

- Recommended Grades: 9-11 Credit: 1 Tier 4
- CTC Course: SPAN 1411
- TCCN: SPAN 1411
- Prerequisite: Acceptance to CTC
- The study of basic Spanish grammar with the development of frequently used vocabulary. This course develops students’ speaking, listening, reading, and writing skills so they will be able to express their own ideas and interact with others. Some culture points are integrated to introduce students to the everyday lives of Spanish speakers in the twenty-one countries of the Spanish-speaking world.

Beginning Spanish II

- Recommended Grades: 9-11 Credit: 1 Tier 4
- CTC Course: SPAN 1412
- TCCN: SPAN 1412
- Prerequisite: Acceptance to CTC, SPAN 1411 with a “C” or above.
- The study of basic Spanish grammar and vocabulary development continued from the SPAN 1411 curriculum.

Intermediate Spanish I

- Recommended Grades: 11-12 Credit: 1 Tier 4
- CTC Course: SPAN 2311
- TCCN: SPAN 2311
- Prerequisite: Acceptance to CTC, SPAN 1411 and SPAN 1412 with a “C” or above.

- The study of grammar and vocabulary with emphasis on conversation and writing. This course will introduce students to Spanish culture and history as well as Latin American culture and history.

ELECTIVES

Advancement Via Individual Determination 1-4

- Recommended Grade: 9-12 Credit: 1 **Course #: 8211-4**
- Prerequisites: Students must apply and receive approval from the AVID selection committee to participate in this course. Must enroll in at least one honors, AP, or dual credit course.
- Advancement Via Individual Determination (AVID) is an academic elective course that prepares students for college readiness and success, and it is scheduled during the regular school day as a year-long course. Students may earn up to 4 credits in High School for AVID. Each week, students receive instruction utilizing a rigorous college preparatory curriculum provided by AVID Center, tutor-facilitated study groups, motivational activities, and academic success skills. In AVID, students participate in activities that incorporate strategies focused on Writing, Inquiry, Collaboration, Organization, and Reading (WICOR), Character Development, Communication, and College Preparedness to support their academic growth. AVID 1-4 provides a mechanism for elevating previously middle performing students for college readiness.

Athletic Varsity Trainer

- Grade Level(s): 11-12 Credits: 1
- Prerequisite: Sports Medicine I, II, and III or Athletic Trainer recommendation
- This course provides an opportunity for the study and application of the components of sports medicine including sports medicine, concepts of sports injury, athletic healthcare team, sports injury law, sports injury prevention, sports psychology, nutrition, recognition of injuries, emergency action plan and initial injury evaluation, first aid/CPR/AED, the injury process, immediate care of athletic injuries of specific body areas, skin conditions in sports, blood borne pathogens, thermal injuries, and special medical concerns of the adolescent athlete.

Community Transportation

- Recommended Grades: 11-12 Credit: 0.5
- Prerequisite: ARD Placement
- The purpose of this course is to introduce knowledge and skills to empower students to research and access public transportation options in their respective communities. Areas to be addressed include pedestrian and rider safety, navigating public transportation systems, use of technology, and general social skills, including self-advocacy, self-assertiveness, and transportation etiquette. This course provides necessary transportation information, resources, and opportunities that will benefit students in secondary and postsecondary environments as they follow their chosen education or career path.

Health Education

- Recommended Grades: 9-12 Credit: 0.5 **Course #: 8305**
- Prerequisite: None
- During instruction in this class, the textbooks, audiovisual materials, and lectures will include instruction and information concerning human growth and development. These topics are designed to provide a general understanding of wellness, nutrition, fitness, exercise, stress management, mental health, current health issues, and health careers.

Leadworthy The Course

- Recommended Grades: 9-12 Credit: 0.5 **Course #: 8200**
- Prerequisite: None
- Leadworthy The Course is designed to develop personal responsibility, leadership, and professional skills through explicit social-emotional participatory learning experiences. Students will develop an understanding of what it means to be an effective member of the community through community service.

Making Connections 1

- Recommended Grades: 9-12 Credit: 0.5
- Prerequisite: ARD Placement
- The Making Connections course sequence serves students who have an autism spectrum disorder or a related disorder such as social (pragmatic) communication disorder which causes them to have difficulty with social skills. The courses also assist the students with developing and generalizing appropriate and beneficial social skills and in turn increases that student's postsecondary outcome.

Making Connections 2

- Recommended Grades: 9-12 Credit: 0.5
- Prerequisite: ARD Placement
- The Making Connections course sequence serves students who have an autism spectrum disorder or a related disorder such as social (pragmatic) communication disorder which causes them to have difficulty with social skills. The courses also assist the students with developing and generalizing appropriate and beneficial social skills and in turn increases that student's postsecondary outcome. Making Connections II assists students with understanding true friendships. Their enrollment in this course assists students to develop and maintain relationships.

Making Connections 3

- Recommended Grades: 9-12 Credit: 0.5
- Prerequisite: ARD Placement
- Making Connections III assists students in understanding how their specific disability impacts their learning style. Students learn to employ the proper accommodations and modifications to be more successful. Additionally, they develop the skill to effectively self-advocate for the accommodations and modifications they require.

Making Connections 4

- Recommended Grades: 9-12 Credit: 0.5
- Prerequisite: ARD Placement
- The Making Connections course sequence serves students who have an autism spectrum disorder or a related disorder such as social (pragmatic) communication disorder which causes them to have difficulty with social skills. The courses also assist the students with developing and generalizing appropriate and beneficial social skills and in turn increases that student's postsecondary outcome. Making Connections IV assists students with developing skills to employ collaborative problem solving.

Peer Assistance for Students with Disabilities 1

- Grade Level: 11-12 Credits: 1 **Course #: 8230**
- Prerequisite: None
- This course is designed to promote an inclusive educational environment for students receiving special education services. This course provides peer assistants the opportunity to understand the different disabilities of the students, develop leadership skills to aid the learners and work on communication skills between the peer assistant and the learners. Peer assistants obtain initial training in confidentiality, cueing, prompting, and positive reinforcement to be used with their students. Peer assistants aid the teacher inside the special education setting by modeling appropriate learning behaviors, assisting with hands on learning activities, and developing activities to facilitate inclusion within the classroom. The goal is to create a relationship among

age-appropriate peers of different abilities, both socially and academically, that will last long beyond the classroom time.

Peer Assistance for Students with Disabilities 2

- Grade Level: 11-12 Credits: 1 **Course #:8232**
- Prerequisite: Peer Assistance for Students with Disabilities 1
- This course differs from Peer Assistance for Students with Disabilities 1 in that the peer assistant provides more one-on-one instruction to the student receiving assistance. The peer assistant role is designed to accompany the student receiving assistance as a facilitator of learning as the peer assistant goes out to courses within the school. The relationship that develops inside the classroom between these peer assistants and learners with special needs allows for growth for each student as the peer assistants act as a support and voice in the classroom and the student receiving assistance learns lifelong skills and develops confidence within and outside of the school environment.

Sports Medicine I

- Grade Level(s): 09-10 Credits: 1 **Course #: 8350**
- Prerequisite: Training Staff approval
- This course provides an opportunity for the study and application of the components of sports medicine including sports medicine, concepts of sports injury, athletic healthcare team, sports injury law, sports injury prevention, sports psychology, nutrition, recognition of injuries, emergency action plan and initial injury evaluation, first aid/CPR/AED, the injury process, immediate care of athletic injuries of specific body areas, skin conditions in sports, blood borne pathogens, thermal injuries, and special medical concerns of the adolescent athlete.

Sports Medicine II

- Grade Level(s): 10-11 Credits: 1 **Course #: 8351**
- Prerequisite: Sports Medicine I
- This course provides a more in-depth study and application of the components of sports medicine including CPR and AED certification, rehabilitative techniques; therapeutic modalities; prevention, recognition, and care of injuries to the head and face, spine, upper extremity, lower extremity; taping and bandaging; injuries to the young athlete; substance abuse in sports; and general health concerns in sports medicine. Individualized and independent assignments will be included in this course. This course will involve outside-of-class time homework and time required working with athletes and athletic teams. Students must receive the approval of the Licensed Athletic Trainer supervising the athletic training students' staff.

Sports Medicine III

- Grade Level(s): 11-12 Credits: 1 **Course #: 8352**
- Prerequisite: Sports Medicine II
- This course will provide a logical progression for students that have advanced through the sports medicine courses and provide them with an opportunity to apply the knowledge and skills they have gained to athletic injury recognition, evaluation, management, treatment, and rehabilitation through research investigations and applications related to sports medicine. The course will provide opportunities for advanced students in the sports medicine program to research, investigate, prepare, and present article reviews, case studies, research projects, visual poster presentations, and multimedia presentations on instructor-approved topics. The athletic training students will continue to perform the assigned duties and responsibilities in the operation of the athletic training room under the supervision of a licensed athletic trainer. These duties will prepare the students to apply the knowledge and skills acquired in the sports medicine course curriculum. The required duties will be a portion of the grade earned in the course.

Student Aide – Local Credit

- Grade Level: 12 Credits: 0.5 to 1 **Course #: 8363**
- Prerequisite: Recommendation criteria and committee approval
- Assist in various offices on campus.

ELECTIVES – P.E. credit

Aerobic Activities 1

- Recommended Grades: 8-12 Credit: 0.5 **Course #: 8321**
- Prerequisite: None
- Students in aerobic activities are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation.

Aerobic Activities 2

- Recommended Grades: 9-12 Credit: 0.5 **Course #: 8322**
- Prerequisite: None
- Students in aerobic activities are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation.

Athletics 1-4 (Recommendation from Head Coach)

- Recommended Grades: 9-12 Credit: 1
- Prerequisite: Must obtain permission by Head Coach
- This program is governed by the University Interscholastic League and all rules established by the league are strictly supported. Copperas Cove also follows the recommendations of the American Medical Association in hair length and enforces this recommendation in all athletic programs. UIL athletics are available to all students who wish to participate in sports and follow guidelines established by the coaches. UIL sports offered include football, Volleyball, baseball, track, tennis, golf, volleyball, soccer, swimming, softball and cross-country. These sports are available on the varsity and sub-varsity levels. An off-season program is conducted in these sports. A student may choose to participate in all sports or to specialize in one or two. Academics are stressed first and athletics second. Grade averages must be maintained at a passing level if a student wants to continue to participate in athletic activities. Students enrolling in UIL activities must possess a competitive spirit, a proper attitude, and a willingness to work not only during class, but also on their own time. These classes will meet every day. Signature from the head coach in the sport or the athletic director needed for all UIL sports.

Cheerleading 1-4 (Recommendation from Cheer Coach)

- Recommended Grades: 9-12 Credit: 1
- Prerequisite: Competitive tryout
- Varsity or junior varsity team
- This is a performance-oriented group specializing in school spirit. In-class requirements include suiting out and participating in physical education activities such as conditioning, aerobic dance, tumbling, pyramids, stunts, and dance. Student responsibilities include attending summer camp, performing at games and community activities as directed by the cheer director. Student is also responsible for attending/participating in assignments such as after-school practice, sign making, competitions, parades, and special appearances. Many after-school hours are required. Expenses to the student include summer camp and purchase of various cheer items. Uniforms are issued.

