

Elgin High School Curriculum



Curriculum Philosophy and Framework

Elgin Independent School District provides high school students with a well-balanced, rigorous curriculum that meets the requirements set forth by the Texas Education Agency (TEA).

A key focus of the Elgin ISD high school academic program is to make certain all students are prepared for graduation and post-secondary opportunities by focusing on the attainment of the essential skills in English Language Arts, Mathematics, Science, Social Studies, Career and Technical Education, and Fine Arts programming.

The instructional program delivered at the high school is based on the official curriculum defined by the state, known as the Texas Essential Knowledge and Skills (TEKS), and the College and Career Readiness Standards (CCRS), developed in collaboration between TEA and the Texas Higher Education Coordinating Board (THECB). The district has also adopted the TEKS Resource System as our framework for teaching the state standards. These learning standards are designed to represent a full range of knowledge and skills that students need to succeed in entry-level college courses, as well as in a wide range of majors and careers. By implementing these required standards, our schools will advance the mission of Texas to develop college and career ready students.

In addition to certain required courses, students will earn at least one of the following endorsements:

- Arts & Humanities
- Business & Industry
- Public Services
- STEM
- Multidisciplinary

Grading and Evaluation

Report cards will be issued every six weeks throughout the school year. In addition to report cards, the school will mail interim progress reports every three weeks.

English Language Arts Courses

The Foundation High School Program with Endorsements requires four English Language Arts (ELA) credits.

English I

Credit: 1, Full Year

Grade: 9-10

Prerequisite: None

Students will develop an understanding for reading, writing, research, listening, speaking, and the oral and written conventions of the English language. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. In addition, students will continue to address earlier standards as needed while they attend to standards for their grade level. Students will read extensively from multiple literary genres and informational texts. (03220100)

English I for Speakers of Other Languages (ESOL I)

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Students with Limited English Proficiency

This course covers all the TEKS for English I, and uses ESL strategies designed for beginning ESOL students. Students will engage in structured conversation for oral language development and in explicit instruction for mastery of the objectives. Strategic use of the student's first language will facilitate academic development in English. This course counts as English I credit and student placement is determined by the Language Proficiency Assessment Committee. (03200600)

Advanced English I

Credit: 1, Full Year

Grade: 9-10

Prerequisite: None

This course is designed for students with high academic interest and a strong work ethic in English Language Arts. The advanced class serves as the foundation for the Advanced Placement Program, specifically for AP English III Language and Composition and AP English IV Literature and Composition. Emphasis is placed on developing students' skills in critical, analytical and creative thinking, close reading, grammar, and composition. Students will read extensively in multiple genres from diverse time periods and cultures. **Summer reading is required and counts as the first major grade in the course.** (03220100)

English II

Credit: 1, Full Year

Grade: 10-11

Prerequisite: None

Recommended Prerequisite: English I

Students will develop an understanding for reading, writing, research, listening, speaking, and the oral and written conventions of English. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. In addition, students will continue to address earlier standards as needed while they attend to standards for their grade level. Students will read and write extensively from multiple genres, including literary and informational texts with an emphasis on world literature. (03220200)

English II for Speakers of Other Languages (ESOL II)

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Students with Limited English Proficiency

Recommended Prerequisite: ESOL I

This course covers all the TEKS for English II, and uses ESL strategies designed for beginning and intermediate ESOL students. Students will engage in structured conversation for oral language development and explicit instruction for mastery of the objectives. Strategic use of the student's first language will facilitate academic development in English. Course counts as English II credit and student placement is determined by the Language Proficiency Assessment Committee. (03200700)

Advanced English II**Credit: 1, Full Year****Grade: 10-11****Prerequisite: None****Recommended Prerequisite: English I**

This course is designed for students with high academic interest and a strong work ethic in English Language Arts. The advanced class serves as the foundation for the Advanced Placement Program, specifically for AP English III Language and Composition and AP English IV Literature and Composition. Emphasis is placed on developing students' skills in critical, analytical and creative thinking, grammar, and composition. Students will read extensively in multiple genres from diverse time periods and cultures. **Summer reading is required and counts as the first major grade in the course.** (03220200)

English III**Credit: 1, Full Year****Grade: 11-12****Prerequisite: None****Recommended Prerequisite: English I and English II**

Students will develop an understanding for reading, writing, research, listening, speaking, and the oral and written conventions of English. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. In addition, students will continue to address earlier standards as needed while they attend to standards for their grade level. Students will read extensively from multiple genres with an emphasis on American literature. (03220300)

AP English III Language and Composition**Credit: 1, Full Year****Grade: 11-12****Prerequisite: None****Recommended Prerequisite: English I and English II**

In this course, critical and creative thinking skills are developed through the reading and critical analysis of literature and language, as well as, required reading, discussion, essays, and exams. Students are required to use rhetorical analysis, critical evaluation, and advanced writing techniques. Students will read extensively in multiple genres from diverse time periods and cultures, with an emphasis on American writers. Summer reading is required. Students are required to take the AP Language and Composition exam at the conclusion of the course which may lead to college credit. **Summer reading is required and counts as the first major grade in the course.** (A3220100)

Dual Credit English III**Credit: 1, Full Year****Grade: 11-12****Prerequisite: Complete ACC requirements, including TSI compliance, by deadlines**

This college-level course is an in-depth writing and literature course which requires extensive essays, discussion, required reading, and exams. Critical and creative thinking skills are developed through the reading and critical analysis of literature and language. (03220300)

English IV**Credit: 1, Full Year****Grade: 11-12****Prerequisite: None****Recommended Prerequisite: English I, English II, English III**

Students will develop an understanding for reading, writing, research, listening, speaking, and the oral and written conventions of English. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. In addition, students will continue to address earlier standards as needed while they attend to standards for their grade level. Students will read extensively from multiple genres with an emphasis on British literature. (03220400)

AP English IV Literature and Composition

Credit: 1, Full Year

Grade: 11-12

Prerequisite: None

Recommended Prerequisite: English I, English II, English III

This college-level course serves as a cursory survey of British literature. Critical and creative thinking skills are developed through the reading and in-depth analysis of various genres of literature through required readings, discussions, essays, and exams. Students will examine literary works and analyze literary elements in relation to the contemporary experience and the times in which they were written. Students will spend more time writing advanced essays. Summer reading is required. Students are required to take the AP Literature and Composition exam at the conclusion of the course which may lead to college credit. (A3220200)

Dual Credit English IV

Credit: 1, Semester

Grade: 11-12

Prerequisite: Complete ACC requirements and prerequisites, including TSI compliance, by deadlines

Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. In addition, students will continue to address earlier standards as needed while they attend to standards for their grade level. Students will read extensively from multiple genres with an emphasis on British literature. **Summer reading is required and counts as the first major grade in the course.** (03220400)

Elective ELA Courses

The courses listed below may possibly be used for endorsement credits or elective credits. Students should verify the allocation of credits for courses listed below with their counselor.

College Preparation ELA Course

Credit: 1, Semester

Grade: 12

Prerequisite: None, senior not meeting college readiness indicators

This class helps students get ready for college level coursework in reading and writing and prepares them for the Texas Success Initiative (TSI) exam, which Texas public colleges and universities use to assess college readiness. Incoming seniors who do not meet college ready benchmarks for Reading on EOC, PSAT, and/or SAT may be placed in this course. (CP110100)

Creative Writing

Credit: 1, Full Year

Grade: 10-12

Prerequisite: None

This course is a rigorous composition course that requires students to demonstrate strong writing skills. The course will include student compositions such as fiction, short stories, poetry and drama. (03221200)

Debate I

Credit: 1, Full Year

Grade: 9-12

Prerequisite: None

Controversial issues arise in aspects of personal, social public, and professional life in modern society. Debate and argumentation are widely used to make decisions and reduce conflict. Students who develop skills in argumentation and debate become interested in current issues, develop sound critical thinking, and sharpen communication skills. They acquire life-long skills for intelligently approaching controversial issues. (03240600)

Dual Credit Humanities I and II

Credit: 1, Semester

Grade: 9-12

Prerequisite: Complete ACC requirements, including TSI compliance, by deadlines

A study of representative samples of literature, art, and music of various periods and cultures. The study of interrelationships of the arts and their philosophies emphasizes an understanding of human nature and the values of human life. (03221600) (03221610)

Dual Credit Independent Studies in English

Credit: 1, Semester

Grade: 11-12

Prerequisite: None

Students enrolled in Independent Study in English will focus on a specialized area of study such as the work of a particular author or genre. Students will read and write in multiple forms for a variety of audiences and purposes. High school students are expected to plan, draft, and complete written compositions on a regular basis and carefully examine their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English. If this course is being used to satisfy requirements for the Distinguished Achievement Program, a student research/product must be presented before a panel of professionals or approved by the student's mentor. (03221800)

Practical Writing Skills

Credit: 1, Full Year

Grade: 10-12

Prerequisite: None

This course provides additional writing support for students, while developing skills necessary for practical writing. This course emphasizes skill in the use of conventions and mechanics of written English, the appropriate and effective application of English grammar, the reading comprehension of informational text, and the effective use of vocabulary. Students are expected to understand the recursive nature of reading and writing. Evaluation of students' own writing as well as the writing of others ensures that students completing this course are able to analyze and evaluate their writing. (03221300)

Professional Communications (Speech)

Credit: 0.5, semester

Grade: 9-12

Prerequisite: None

This course is designed to enhance and refine communication skills by learning and practicing verbal, non-verbal and listening skills and interpersonal, group and professional situations. It is designed to prepare students for college and job interviews and for work-related dialogues between customers, employers and fellow employees. This course will satisfy the district speech requirement. (13009900)

Dual Credit Public Speaking

Credit: 0.5, Semester

Grade: 9-12

Prerequisite: Complete ACC requirements, including TSI compliance, by deadline

In this course, students will learn the concepts and skills related to preparing and presenting public messages and to analyzing and evaluating the messages of others. Within this process, students will gain skills in reading, writing, speaking, listening, and thinking and will examine areas such as invention, organization, style, memory, and delivery. This course will satisfy the district speech requirement. (03240900)

Reading I, II, III

Credit: 1, Full Year

Grade: 9-12

Prerequisite: None

This course is for students with severe reading difficulties identified by formal assessments. Students use a flexible range of metacognitive reading skills in both assigned and independent reading to understand an author's message. The student is expected to reflect on understanding to monitor comprehension and make complex inferences about text and use textual evidence to support understanding. (03270700) (03270800) (03270900)

Research and Technical Writing

Credit: 1, Full Year

Grade: 11-12

Prerequisite: None

The study of technical writing allows students to develop skills necessary for writing persuasive and informative texts. This rigorous composition course asks high school students to skillfully research a topic or a variety of topics and present that information through a variety of media. (03221100)

Mathematics Courses

The Foundation High School Program with Endorsements requires four mathematics (math) credits.

Algebra I

Credit: 1, Full Year

Grade: 9-10

Prerequisite: 8th grade Math or its equivalent

Algebra I will expand students' understanding of number, operation, and quantitative reasoning, linear functions, equations and inequalities, statistical relationships, quadratic functions and equations, exponential functions and equations, and number and algebraic methods. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. (03100500)

Algebra II

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Algebra I

Endorsement Pathways: STEM – Math, Math and Science

Algebra II students extend basic algebraic skills developed in Algebra I into new situations. This course broadens student knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods and apply them in both mathematical and real-world problems. (03100600)

Advanced Algebra II

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Algebra I

Endorsement Pathways: STEM – Math, Math and Science

Advanced Algebra II is designed for students with high academic interest and a strong work ethic. In addition to the prescribed curriculum for Algebra II, this course will address higher-level thinking and problem solving skills. Also included are proof and theory of algebraic statements and analyzing and solving more challenging problems. Graphing calculators will be utilized extensively. This course prepares students for upper level math classes to include Statistics, Pre-Calculus, and Calculus. (03100600)

Geometry

Credit: 1, Full Year

Grade: 9 -12

Prerequisite: Algebra 1

Endorsement Pathways: STEM – Math, Math and Science

Geometry students develop deductive reasoning by using terms, postulates, definitions, and theorems. The course provides a mathematical model to the physical world and applies algebraic concepts to geometric situations with a more precise focus on terminology, symbolic representations, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. (03100700)

Advanced Geometry**Credit: 1, Full Year****Grade: 9-12****Prerequisite: Algebra 1****Endorsement Pathways: STEM – Math, Math and Science**

Advanced Geometry is designed for students with high academic interest and a strong work ethic. In addition to the prescribed curriculum for Geometry, this course is designed to address high-level thinking and problem solving skills. Emphasis is placed on formal proofs using deductive and inductive reasoning. Students who wish to take advanced placement math exams should consider this course. (03100700)

Pre-Calculus**Credit: 1, Full Year****Grade: 10-12****Prerequisite: Algebra I, Algebra II, and Geometry****Endorsement Pathways: STEM – Math, Math and Science**

This course covers topics which traditionally follow algebra and geometry including polynomials, exponential, logarithmic and circular functions, and their combinations. Students use functions, equations, and limits as useful tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships. Students also use functions as well as symbolic reasoning to represent and connect ideas in geometry, probability, statistics, trigonometry, and calculus and to model physical situations. (03101100)

OnRamps Pre-Calculus (Advanced)**Credit: 1, Full Year****Grade: 10-12****Prerequisite: Algebra I, Algebra II, and Geometry****Endorsement Pathways: STEM – Math, Math and Science**

This course is designed for students with high academic interest and a strong work ethic and covers topics which traditionally follow Algebra and Geometry including polynomials, exponential, logarithmic and circular functions, and their combinations. Students use functions, equations, and limits as useful tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships. Students also use functions as well as symbolic reasoning to represent and connect ideas in geometry, probability, statistics, trigonometry, and calculus and to model physical situations. Emphasis will be placed on skills necessary to be successful in AP Calculus. Students may be eligible to dually enroll at The University of Texas and earn college credit in this course. At the end of the course, the university's Instructor of Record will award students the appropriate grade based on their performance for the college course. The high school teacher will separately award credit for the grade earned in the high school course, which may differ from that for the college course. (03101100)

AP Calculus**Credit: 1, Full Year****Grade: 11-12****Prerequisite: Pre-Calculus****Endorsement Pathways: STEM – Math, Math and Science**

This college level course prepares students to take the AP Calculus AB Exam for possible college credit. It is equivalent to the first semester of college Calculus, and includes practical applications of Calculus. Topics include limits and continuity of functions; derivatives and their applications; definite integrals and their applications; elementary techniques and applications of anti-differentiation, including differential equations and slope fields. Students who plan to major in science, engineering or business should consider taking this course. Students are required to take the Advanced Placement Calculus Exam at the conclusion of the course. (A3100101)

Additional Math Courses

In accordance with TAC 74.12 and TAC 74.13, the courses listed below may be used to meet the third and/or fourth credit in mathematics graduation requirement. The courses may also possibly be used for endorsement credits or elective credits. Students should verify the allocation of credits for courses listed below with their counselor.

Advanced Quantitative Reasoning

Credit: 1, Full Year

Grade: 9 - 12

Prerequisite: Algebra II and Geometry

Advanced Quantitative Reasoning is a math course that builds on concepts from Algebra I, Geometry and Algebra II. Students expand their understanding through further mathematical experiences including the analysis of information using statistical methods and probability, modeling change and mathematical relationships, and spatial and geometric modeling for mathematical reasoning. Students learn to become critical consumers of real-world quantitative data, knowledgeable problem solvers who use logical reasoning and mathematical thinkers who can use their quantitative skills to solve authentic problems. (03102510)

Algebraic Reasoning

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Algebra I

In Algebraic Reasoning, students will build on the knowledge and skills for mathematics and Algebra I, 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. (03102540)

Dual Credit College Algebra

Credit: 1, Semester

Grade: 10-12

Prerequisite: Algebra II, and complete ACC requirements, including TSI compliance, by deadlines

A course designed for students majoring in business, mathematics, science, engineering, or certain engineering-related technical fields. Content includes the rational, real, and complex number systems; the study of functions including polynomial, rational, exponential, and logarithmic functions and related equations; inequalities; and systems of linear equations and determinants. (IHE11100)

Dual Credit College Math

Credit: 1, Semester

Grade: 10-12

Prerequisite: complete ACC requirements, including TSI compliance, by deadlines

A topics-based course, with a variety of possible topics chosen by individual instructors. The selected topics may include: sets, logic, number theory, geometry, probability and statistics, and the mathematics of finance and social choice. This course is not algebra-intensive, and is designed for non-technical majors. (03102500)

College Preparation Math Course

Credit: 1, Semester

Grade: 12

Prerequisite: Algebra I, Geometry, and an advanced math course, seniors not meeting college readiness indicators

This class helps student get ready for college level coursework in math. Incoming seniors who do not meet college ready benchmarks for Math on EOC, PSAT, SAT, and/or TSI may be placed in this course. (CP111200)

Mathematical Models with Applications**Credit: 1, Full Year****Grade: 10-12****Prerequisite: Algebra 1**

Students continue to build on algebra I and geometry concepts as they expand their understanding through other mathematical experiences. Students solve real-life applied problems involving money, data, chance, patterns, music, design, and science. Several units focus on personal income, credit, and financial planning. (03102400)

Statistics**Credit: 1, Full Year****Grade: 11-12****Prerequisite: Algebra 1**

In Statistics, students will build on the knowledge and skills for mathematics and broaden their knowledge of variability and statistical processes. Students will study sampling and experimentation, categorical and quantitative data, probability and random variables, inference, and bivariate data. Students will connect data and statistical processes to real-world situations and extend their knowledge of data analysis. (03102530)

OnRamps Statistics (Advanced)**Credit: 1, Full Year****Grade: 11-12****Prerequisite: Algebra I****Endorsement Pathways: STEM – Math, Math and Science**

This college level course is equivalent to a one-semester introductory college course in statistics. Students should have a solid foundation in algebra prior to enrollment. This course will introduce students to four major conceptual themes: observing and exploring data; planning a statistically valid investigation; anticipating patterns and using probability and simulations for predicting outcomes; and confirming or rejecting models through statistical inference. Technology is an integral part of the course. Graphing calculators and computers are the primary tools for data analysis. Students are required to take the Advanced Placement Statistics Exam at the conclusion of the course. Students may be eligible to dually enroll at The University of Texas and earn college credit in this course. At the end of the course, the university's Instructor of Record will award students the appropriate grade based on their performance for the college course. The high school teacher will separately award credit for the grade earned in the high school course, which may differ from that for the college course. (A3100200)

Dual Credit Statistics**Credit: 1, Semester****Grade: 11-12****Prerequisite: Algebra I, and complete ACC requirements, including TSI compliance, by deadlines.**

A first course in statistics for students in business; nursing; allied health; or the social, physical, or behavioral sciences; or for any student requiring knowledge of the fundamental procedures for data organization and analysis. Topics include frequency distributions, graphing, measures of location and variation, and the binomial and normal distributions. (03102530)

Science Courses

The Foundation High School Program with Endorsements requires four science credits.

Biology

Credit: 1, Full Year

Grade: 9-10

Prerequisite: None

Endorsement Pathways: STEM – Science, Math and Science

In this course, student study a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; and ecosystems and the environment. (03010200)

Advanced Biology

Credit: 1, Full Year

Grade: 9-10

Prerequisite: None

Endorsement Pathways: STEM – Science, Math and Science

In this course, students conduct laboratory and field investigations throughout the year. Many of the concepts are the same as those in Biology, except the presentation is more accelerated and in more detail. (03010200)

Integrated Physics and Chemistry (IPC)

Credit: 1, Full Year

Grade: 10-11

Prerequisite: None

Students conduct laboratory and field investigations, use scientific methods during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter. (03060201)

Chemistry

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Algebra I and one unit of high school science

Endorsement Pathways: STEM – Science, Math and Science

In this course, students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives. (03040000)

Advanced Chemistry

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Algebra I and one unit of high school science

Endorsement Pathways: STEM – Science, Math and Science

In this course, students conduct laboratory and field investigations throughout the year. Many of the concepts are the same as those in Chemistry, except the presentation is more accelerated and in more detail. Students should expect a faster class pace, more in-depth classroom instruction, increased amount of reading and overall greater academic expectations of assignments and time management. (03040000)

Physics

Credit: 1, Full Year

Grade: 11-12

Recommended Prerequisite: Algebra 1

Endorsement Pathways: STEM – Science, Math and Science

In this course, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills. (03050000)

AP Physics I (Algebra based)

Credit: 1, Full Year

Grade: 11-12

Recommended Prerequisite: Algebra I and Geometry

Endorsement Pathways: STEM – Science, Math and Science

This course is an algebra-based, introductory college level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Students are required to take the Advanced Placement Exam at the conclusion of the course. (A3050003)

AP Biology

Credit: 1, Full Year

Grade: 11-12

Recommended Prerequisites: Biology and Chemistry

Endorsement Pathways: STEM – Science, Math and Science

This college level course prepares students to take the AP Biology exam for possible college credit. Laboratory techniques are developed to further students' ability to pursue a career in a biologically-related field. Students will conduct laboratory investigations of chemical reactions that occur in organisms. Concepts of molecular and cellular biology, as well as the biology of organisms and population will be investigated. Students are required to take the Advanced Placement Biology Exam at the conclusion of the course. (A3010200)

AP Chemistry

Credit: 1, Full Year

Grade: 11-12

Recommended Prerequisites: Algebra 2, and Chemistry or Advanced Chemistry

Endorsement Pathways: STEM – Science, Math and Science

This course is intended to assist students in developing advanced inquiry and reasoning skills, data collection and analysis, and connecting concepts in and across scientific domains with an emphasis on scientific practices. Students are required to take the Advanced Placement Exam at the conclusion of the course. (A3040000)

Environmental Systems

Credit: 1, Full Year

Grade: 10-12

Recommended Prerequisite: one unit high school life science and one unit high school physical science

Students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include biotic and abiotic factors in habitats, ecosystems and biomes, interrelationships among resources and an environmental system, sources and flow of energy through an environmental system, relationship between carrying capacity and changes in populations and ecosystems; and changes in environments. (03020000)

Additional Science Courses

The courses listed below may be used to meet the fourth credit in science graduation requirement. The courses may also possibly be used for endorsement credits or elective credits. Students should verify the allocation of credits for courses listed below with their counselor.

Advanced Animal Science

Credit: 1, Full Year

Grade: 11-12

Prerequisite: Biology, Chemistry or IPC; Algebra 1 and Geometry; either Small Animal Management, Equine Science, or Livestock Production.

Recommended Prerequisite: Veterinary Medical Applications

Endorsement Pathway: Business & Industry - Animal Science

This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and lab experiences. Students will learn about animal health and services with classroom and hands-on experiences, including shadowing at various local businesses. Students will travel to MD Anderson Research Center, Elgin Veterinary Hospital, and Elgin Breeding Service, to learn about various techniques in veterinarian medicine. (13000700)

Advanced Plant and Soil Science

Credit: 1, Full Year

Grade: 11-12

Recommended Prerequisites: Biology, IPC, Chemistry, or Physics; a minimum of one credit in the Agriculture, Food, and Natural Resources cluster required

Endorsement Pathway: Business & Industry - Plant Science

This course is designed to involve students with horticulture (plant) sciences with an emphasis on hands on skills while teaching the students career opportunities using plants in horticulture. In addition to caring for and experimenting with plants in the greenhouse, students will conduct investigations, laboratory practices, and field exercises to develop an understanding of plant and soil science. (13002100)

Anatomy and Physiology

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Biology and a second science credit

Endorsement Pathways: Public Services – Health Science and STEM – Science, Math and Science

The Anatomy and Physiology 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 study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. (13020600)

Dual Credit Environmental Systems

Credit: 1, Semester

Grade: 10-12

Prerequisite: Complete ACC requirements, including TSI compliance, by deadlines

An overview of environmental science and current global concerns, exploring scientific, economic, social and political solutions to environmental problems. Discussion of the history of the environmental movement, environmental regulatory agencies, fundamental principles of resources and their use, population, conservation, and environmental health. A field trip may be required. (03020000)

Forensic Science**Credit: 1, Full Year****Grade: 11-12****Prerequisite: Biology & Chemistry****Recommended Prerequisite: Principles of Law, Public Safety, Corrections and Security; Law Enforcement I****Endorsement Pathway: Public Services – Law Enforcement**

Forensic science is a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminalist behavior. Students will learn basic terminology and investigative procedures related to crime scene, question building, interviewing, criminal behavior characteristics, truth detection methodology, and scientific procedures used to solve crimes. Students will have the opportunity to collect and analyze evidence through case studies and mock crime scenes. Lab activities will be based on crime scene scenarios and analyzing fingerprints, ballistics, and blood spatter. Students will learn about the history, legal aspects of forensic science, and career options available in the forensic field. (13029500)

Dual Credit Life on Earth**Credit: 1, Semester****Grade: 10-12****Prerequisite: Complete ACC requirements, including TSI compliance, by deadlines**

A survey of the living organisms on our planet for the non-science major. Emphasis on evolutionary and natural history, structural and behavioral adaptations, biological diversity and co-evolution. (13037200)

Medical Microbiology**Credit: 1, Full Year****Grade: 10-12****Prerequisite: Biology and Chemistry****Recommended Prerequisite: a course from the Health Science cluster****Endorsement Pathway: Public Services – Health Science**

Students in Medical Microbiology explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases. (13020700)

Pathophysiology**Credit: 1, Full Year****Grade: 11-12****Prerequisite: Biology and Chemistry****Recommended Prerequisite: a course from the Health Science cluster****Endorsement Pathway: Public Services – Health Science**

In Pathophysiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology. (13020800)

Social Studies Courses

The Foundation High School Program with Endorsements requires three social studies credits. Elgin Independent School District strongly recommends students take four social studies credits.

World Geography Studies

Credit: 1, Full Year

Grade: 9-10

Prerequisite: None

Endorsement Pathway: Arts & Humanities – Social Studies

Note students may take either World Geography or AP Human Geography. They will not receive credit for both.

This course requires students to examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography and describe the influence of geography on events of the past and present with emphasis on contemporary issues. Students are also required to analyze how location affects economic activities in different economic systems, identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies, compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment, and use problem-solving and decision-making skills to ask and answer geographic questions. (03320100)

AP Human Geography

Credit: 1, Full Year

Grade: 9-10

Prerequisite: None, may be used as substitute for World Geography Studies

Endorsement Pathway: Arts & Humanities – Social Studies

Note students may take either World Geography or AP Human Geography. They will not receive credit for both.

This course introduces 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. They also learn about the methods and tools geographers use in their science and practice. Students are required to take the Advanced Placement Human Geography exam at the conclusion of the course. (A3360100)

World History

Credit: 1, Full Year

Grade: 10-11

Prerequisite: None

Endorsement Pathway: Arts & Humanities – Social Studies

This course is a survey of the history of humankind. Due to the expanse of world history and the time limitations of the school year, the scope of this course will focus on essential concepts and skills that can be applied to various eras, events, and people. Students examine the impact of geographic factors on major historic events and identify the historic origins of contemporary economic systems. Students analyze the process by which constitutional governments evolved as well as the ideas from historic documents that influenced that process. Students trace the historical development of important legal and political concepts. Students examine the history and impact of major religious and philosophical traditions. Students analyze the connections between major developments in science and technology and the growth of industrial economies, and they use the process of historical inquiry to research, interpret, and use multiple sources of evidence. (03340400)

AP World History

Credit: 1, Full Year

Grade: 10-11

Prerequisite: None, may be used as a substitute for World History

Endorsement Pathway: Arts & Humanities – Social Studies

This course develops students' understanding of significant people, events, and issues from earliest times to present in civilizations around the world, including evolving processes, and human contact and interactions. Recognizing and understanding cause and effect relationships, multiple causation, trends, themes and interactions, and importance of both change and continuity in shaping human events will be stressed. Students are required to take the Advanced Placement World History Studies exam at the conclusion of the course. (A3370100)

U.S. History since Reconstruction**Credit: 1, Full Year****Grade: 10-12****Prerequisite: None****Endorsement Pathway: Arts & Humanities – Social Studies**

The course content is based on the founding documents of the U.S. government, which provide a framework for its heritage. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies, and reform movements, including civil rights. Students examine the impact of geographic factors on major events and eras and analyze their causes and effects. Students examine the impact of constitutional issues on American society, evaluate the dynamic relationship of the three branches of the federal government, and analyze efforts to expand the democratic process. Students describe the relationship between the arts and popular culture and the times during which they were created. Students analyze the impact of technological innovations on American life. Students use critical thinking skills and a variety of primary and secondary source material to explain and apply different methods that historians use to understand and interpret the past, including multiple points of view and historical context. (03340100)

AP U.S. History**Credit: 1, Full Year****Grade: 10-12****Prerequisite: None, may be used as a substitute for U.S. History since Reconstruction****Endorsement Pathway: Arts & Humanities – Social Studies**

This college level course prepares students to take the AP U.S. History exam for possible college credit. The class surveys the period from the first European explorations to the present stressing political institutions, behavior and public policy, social and economic change, diplomacy and international relations, and cultural and intellectual developments. Recognizing and understanding cause and effect relationships, multiple causation, trends, themes and interactions, and importance of both change and continuity in shaping human events will be stressed. Analytical essays and research papers will be required. Students are required to take the Advanced Placement U.S. History exam at the conclusion of the course. (A3340100)

Dual Credit U.S. History I**Credit: .5, Semester****Grade: 10-12****Prerequisite: Complete ACC requirements, including TSI compliance, by deadlines****Endorsement Pathway: Arts & Humanities – Social Studies**

In this course, students will study the history of the United States to 1877. Students are expected to take this course and Dual Credit U.S. History 8491. (03380002)

Dual Credit U.S. History II**Credit: 1, Semester****Grade: 10-12****Prerequisite: Complete ACC requirements, including TSI compliance, by deadlines; may be used as a substitute for U.S. History since Reconstruction****Endorsement Pathway: Arts & Humanities – Social Studies**

A study of the history of the United States from 1877 to present. This course replaces U.S History 8431, which is required for graduation. (03340100)

U.S. Government

Credit: 0.5, Semester

Grade: 11-12

Prerequisite: None

Endorsement Pathway: Arts & Humanities – Social Studies

Focus is on the principles and beliefs upon which the United States was founded and on the structure, functions, and powers of government at the national, state, and local levels. This course is the culmination of the civic and governmental content and concepts studied from Kindergarten through required secondary courses. Students learn major political ideas and forms of government in history. A significant focus of the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created. Students analyze major concepts of republicanism, federalism, checks and balances, separation of powers, popular sovereignty, and individual rights and compare the U.S. system of government with other political systems. Students identify the role of government in the U.S. free enterprise system and examine the strategic importance of places to the United States. (03330100)

AP U.S. Government and Politics

Credit: .5, Semester

Grade: 11-12

Prerequisite: None, may be used as a substitute for U.S. Government

Endorsement Pathway: Arts & Humanities – Social Studies

This course involves the study of democratic ideas, balance of powers, and tension between the practical and ideal in national policymaking. Students analyze and discuss the importance of various constitutional principles, rights and procedures, institutions, and political processes that impact us as citizens. Students are required to take the Advanced Placement U.S. Government and Politics exam at the conclusion of the course. (A3330100)

Dual Credit U.S. Government

Credit: 0.5, Semester

Grade: 11-12

Prerequisite: Complete ACC requirements, including TSI compliance, by deadlines

Endorsement Pathway: Arts & Humanities – Social Studies

Focus is on the principles and beliefs upon which the United States was founded and on the structure, functions, and powers of government at the national, state, and local levels. Students learn major political ideas and forms of government in history. Students analyze major concepts of republicanism, federalism, checks and balances, separation of powers, popular sovereignty, and individual rights and compare the U.S. system of government with other political systems. Students who qualify for dual credit can earn college credit hours taking this course. (03330100)

Economics

Credit: 0.5, Semester

Grade: 11-12

Prerequisite: None

Endorsement Pathway: Arts & Humanities – Social Studies

Economics focuses on the Free Enterprise System and its benefits including principles of production, consumption, and distribution of goods and services. The student will research the problem of scarcity in the United States and a comparison with those in other countries around the world. Students apply critical thinking skills to create economic models and evaluate economic patterns. (03310300)

Dual Credit Economics

Credit: .5, Semester

Grade: 11-12

Prerequisite: Complete ACC requirements, including TSI reading and math compliance, by deadlines

Endorsement Pathway: Arts & Humanities – Social Studies

Economics focuses on the Free Enterprise System and its benefits including principles of production, consumption, and distribution of goods and services. The student will research the problem of scarcity in the United States and a comparison with those in other countries around the world. Students apply critical thinking skills to create economic models and evaluate economic patterns. (03310300)

Elective Social Studies Courses

The courses listed below may possibly be used for endorsement credits or elective credits. Students should verify the allocation of credits for courses listed below with their counselor.

AP European History

Credit: 1, Full Year

Grade: 11-12

Prerequisite: None

Recommended Prerequisite: World History or AP World History

Endorsement Pathway: Arts & Humanities – Social Studies

This college level course prepares students to take the AP European History exam. Students will focus on developing abilities to think conceptually about European history from approximately 1450 to present and apply historical thinking skills as they learn about the past. Five themes of equal importance—interaction of Europe and the world, poverty and prosperity, objective knowledge and subjective visions, states and other institutions of power, and individual and society—provide areas of historical inquiry for investigation throughout the course. Analytical essays and research papers will be required. Students are required to take the Advanced Placement exam at the conclusion of the course. (A3340200)

Personal Financial Literacy

Credit: 0.5, Semester

Grade: 10-12

Prerequisite: None

Personal Financial Literacy is designed to be an interactive and research-based course. The course will teach students to apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and postsecondary education and training. There are many references to conducting a cost-benefit analysis for spending and investing decisions. Students evaluate the necessity of the purchase, the quality or value of the purchase or investment compared to other alternatives, and the total cost of acquisition, particularly in the context of financing options. Students also understand the power of both compound growth on investments and compound interest on debt and how these concepts affect the ability to build wealth over time. (03380082)

Dual Credit Psychology

Credit: 0.5, Semester

Grade: 10-12

Prerequisite: Complete ACC requirements, including TSI compliance, by deadlines

Students will survey introductory topics such as learning, memory, sensation and perception, personality, life-span development, physiological basis of behavior, stress and health, psychological disorders, social psychology, and research methods. (03350100)

Dual Credit Sociology

Credit: 0.5, Semester

Grade: 10-12

Prerequisite: Complete ACC requirements, including TSI compliance, by deadlines

This course is an introductory study in social behavior and organization of human society. This course will describe the development of the field as a social science by identifying methods and strategies of research leading to an understanding of how the individual relates to society and the ever changing world. Students will also learn the importance and role of culture, social structure, socialization, and social change in today's society. (0337010)

Dual Credit Texas State and Local Government

Credit: 0.5, Semester

Grade: 10-12

Prerequisite: Complete ACC requirements, including TSI compliance, by deadlines

This course is an introduction to Texas state and local government. This course includes a framework for understanding Texas government and politics and the constitutional basis for the processes, the institutions, and the policies of Texas government and politics. (03380022)

Languages Other Than English Courses

The Foundation High School Program with Endorsements requires two Languages Other Than English (LOTE) credits in the same language.

Spanish I

Credit: 1, Full Year

Grade: 9-12

Prerequisite: None

Endorsement Pathway: Arts & Humanities - LOTE

This course will help students acquire novice proficiency in listening, speaking, reading and writing in the target language. They will participate in simple conversations, show understanding of audios/videos in Spanish, write and read novice level paragraphs and articles in the target language. Also, they will acquire general language skills and will be exposed to cultural facts of Spanish-speaking countries. (03440100)

Advanced Spanish for Spanish Speakers I

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Heritage Spanish speaker who possesses a wide range of communicative abilities in the language. This is an accelerated course.

Endorsement Pathway: Arts & Humanities - LOTE

This course is designed for students for whom Spanish is a native or heritage language. It provides those students with the opportunity to expand their existing proficiency and to develop their reading and writing skills. Orthography, diacritics and vocabulary development are stressed. Emphasis will be placed on usage of language appropriate to academic and professional settings. (03440110)

Spanish II

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Successful completion or demonstration of equivalent proficiency of Level I

Endorsement Pathway: Arts & Humanities - LOTE

This course is intended to improve students' skills in the areas of listening, speaking, reading and writing as well as to help them acquire cultural knowledge of the Spanish speaking world. We will explore grammatical structures so that students are able to understand and communicate information in the past, present, and future; summarize both oral and written texts verbally and in writing; and express opinions in the target language. Students read, discuss, and write about newspaper and magazine articles, music lyrics, short stories, literary excerpts and a variety of short videos. (03440200)

Advanced Spanish II

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Successful completion or demonstration of equivalent proficiency of Level I

Endorsement Pathway: Arts & Humanities - LOTE

This course is designed for students with high academic interest and a strong work ethic in Spanish. The advanced class serves as the foundation for the Advanced Placement Program, This course is intended to improve students' skills in the areas of listening, speaking, reading and writing as well as to help them acquire cultural knowledge of the Spanish speaking world. We will explore grammatical structures so that students are able to understand and communicate information in the past, present, and future; summarize both oral and written texts verbally and in writing; and express opinions in the target language. Students read, discuss, and write about newspaper and magazine articles, music lyrics, short stories, literary excerpts and a variety of short videos. (03440200)

Advanced Spanish for Spanish Speakers II

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Heritage Spanish speaker who possesses a wide range of communicative abilities in the language. This is an accelerated course. Successful completion or demonstration of equivalent proficiency of Level I

Endorsement Pathway: Arts & Humanities - LOTE

This course is designed for students for whom Spanish is a native or heritage language. It provides those students with the opportunity to expand their existing proficiency and to develop their reading and writing skills. Orthography, diacritics and vocabulary development are stressed. Emphasis will be placed on usage of language appropriate to academic and professional settings. (03440220)

Advanced Spanish III

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Successful completion or demonstration of equivalent proficiency of Level II

Endorsement Pathway: Arts & Humanities - LOTE

This course will help students communicate in a more sophisticated level in the four basic language skills: listening, speaking, reading and writing. We will also explore cultural facts about the Spanish speaking world. We will briefly review pre-required topics, and then we will discuss and write about a variety of texts and ideas; respond appropriately to socially complex situations and; we will explore the cultural differences and similarities between Spanish speaking countries and the rest of the world. Students will read, discuss, and write about newspaper and magazine articles, music lyrics, short stories, fables, legends, poems, literary excerpts, short videos, movies and their main interests. (03440300)

Dual Credit Spanish I, II, III, IV

Credit: 1, Semester

Grade: 9-12

Prerequisite: Complete ACC requirements, including TSI compliance, by deadlines.

Endorsement Pathway: Arts & Humanities - LOTE

The study of fundamentals of Spanish; conversation, writing, listening and reading comprehension, vocabulary, grammar and culture. (03440100, 03440200, 03440300, 03440400)

AP Spanish IV Language and Culture

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Successful completion or demonstration of equivalent proficiency of Spanish Level III

Endorsement Pathway: Arts & Humanities - LOTE

The AP Spanish IV course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish IV course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish IV course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). Students are required to take the Advance Placement Spanish Language and Culture Exam at the end of the course. (A3440100)

AP Spanish V Literature and Culture

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Successful completion or demonstration of equivalent proficiency of Spanish Level IV

Endorsement Pathway: Arts & Humanities - LOTE

The AP Spanish Literature and Culture course uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, and essays) from Peninsular Spanish, Latin American, and United States Hispanic literature. Students develop proficiencies across the full range of communication modes (interpersonal, presentational, and interpretive), thereby honing their critical reading and analytical writing skills. Literature is examined within the context of its time and place, as students reflect on the many voices and cultures present in the required readings. The course also includes a strong focus on cultural connections and comparisons, including exploration of various media (e.g., art, film, articles, literary criticism). (A3440200)

Computer Science I

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Algebra 1

Endorsement Pathway: STEM – Programming & Software Development

Note – This course can count as a required LOTE credit for graduation

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. (03580200)

Computer Science II

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Algebra 1, Computer Science I or Fundamentals of Computer Science

Endorsement Pathway: STEM – Programming & Software Development

Note – This course can count as a required LOTE credit for graduation

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. (03580300)

AP Computer Science Principles

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Algebra 1

Endorsement Pathway: STEM – Programming & Software Development

This college level course prepares students to take the AP Computer Science Principles exam for possible college credit. AP Computer Science Principles introduces students to the fundamentals of computing and the creative aspects of programming. This course is designed to help students experience the relevance of computing skills to their post-secondary plans. Students are required to take the Advanced Placement Computer Science Exam at the conclusion of the course. (A3580300)

Technology Application Courses

The courses listed below may possibly be used for endorsement credits, LOTE credits, or elective credits. Students should verify the allocation of credits for courses listed below with their counselor.

Computer Science I

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Algebra 1

Endorsement Pathway: STEM – Programming & Software Development

Note – This course can count as a required LOTE credit for graduation

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. (03580200)

Computer Science II

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Algebra 1, Computer Science I or Fundamentals of Computer Science

Endorsement Pathway: STEM – Programming & Software Development

Note – This course can count as a required LOTE credit for graduation

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. (03580300)

AP Computer Science Principles

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Algebra 1

Endorsement Pathway: STEM – Programming & Software Development

Note – This course can count as a required LOTE credit for graduation

This college level course prepares students to take the AP Computer Science Principles exam for possible college credit. AP Computer Science Principles introduces students to the fundamentals of computing and the creative aspects of programming. This course is designed to help students experience the relevance of computing skills to their post-secondary plans. Students are required to take the Advanced Placement Computer Science Exam at the conclusion of the course. (A3580300)

Mobile Application Development

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Proficiency in knowledge and skills relating to Technology Applications, Grades 6-8 and Algebra 1

Endorsement Pathway: STEM – Programming & Software Development

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. (03580390)

Dual Credit ISTE 1370 Intro to Application Development Environment: Swift

Credit: 1, Semester

Grade: 10-12

Prerequisite: Proficiency in knowledge and skills relating to Technology Applications, Grades 6-8 and Algebra 1

Endorsement Pathway: STEM – Programming & Software Development

This course will prepare students for the Mobile Application Programming Environment using Swift/Apple platform. (03580390)

Dual Credit COSC 1336 Programming Fundamentals I

Credit: 1, Semester

Grade: 10-12

Prerequisite: None

Endorsement Pathway: STEM – Programming & Software Development

Introduces the fundamental concepts of structured programming. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. This course requires the same math skills necessary for College Algebra. Students should either have taken or be currently enrolled in College Algebra or a course that requires College Algebra. (13027600)

Dual Credit COSC 1436 Programming Fundamentals I: Apple Swift I

Credit: 1, Semester

Grade: 10-12

Prerequisite: None

Endorsement Pathway: STEM – Programming & Software Development

Introduces the fundamental concepts of structured programming and provides a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. This course is included in the Field of Study Curriculum for Computer Science. (13027700)

Dual Credit COSC 1437 Programming Fundamentals II: Apple Swift II

Credit: 1, Semester

Grade: 10-12

Prerequisite: None

Endorsement Pathway: STEM – Programming & Software Development

This course focuses on the object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software. Apple/Swift will be the platform used for software development. (A3580300)

Dual Credit ITSE 2370 Advanced Application Development: Swift

Credit: 1, Semester

Grade: 10-12

Prerequisite: One or more courses in Technology Applications

Endorsement Pathway: STEM – Programming & Software Development

Capstone course in advanced application development using Swift. Students will create a portfolio. (03581500)

Physical Education (PE) Courses

The Foundation High School Program with Endorsements requires one physical education credit.

UIL Athletic Program

The Elgin High School UIL Athletic Program is organized to provide students an opportunity to express themselves in the physical activity of interschool competition. Students are involved in learning the fundamentals of the sport as well as conditioning and weight lifting. Athletics at the high school is highly competitive. When enrolled in athletics, practice of that sport is every day during the athletic period. When the sport is in its competitive season, the athlete will also practice an additional 1 ½ - 2 hours after school. You **MUST** have prior approval for the athletic period. Indicate on your choice sheet which sport(s) you plan to compete in.

You must have a medical physical and drug testing form on file with the athletic department to be enrolled in an athletic class. This is a UIL rule that mandates all incoming 9th and 11th graders, or new students to the program, have a physical on file that will be good for two school years.

In addition, Elgin ISD implements a mandatory random drug-testing program for students in grades 6-12 that are involved in any school-sponsored extra-curricular activity and who hold a permit to park a vehicle on campus. Each student and his or her parent or guardian is required to give written permission for student drug testing in order to participate in school-sponsored extracurricular activities or park at the school.

Boys' Soccer

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Prior Approval and Physical on File

9th Grade: (PES00000)

10th Grade: (PES00001)

11th Grade: (PES00002)

12th Grade: (PES00003)

Boys' Athletics: Football, Basketball, Baseball

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Prior Approval and Physical on File

9th Grade: (PES00000)

10th Grade: (PES00001)

11th Grade: (PES00002)

12th Grade: (PES00003)

Girls' Athletics: Volleyball, Basketball, Softball, and Soccer

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Prior Approval and Physical on File

9th Grade: (PES00000)

10th Grade: (PES00001)

11th Grade: (PES00002)

12th Grade: (PES00003)

Additional PE Courses

Cheerleading I, II

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Prior Approval and Physical on File

Students are involved in learning the fundamentals of the sport as well as an appreciation for team work.

Cheerleading I counts as a P.E. equivalent credit (PES00013); II will count as local credit (84200CHR).

Dance I (PE credit), (Fine Arts credit)**Credit: 1, Full Year****Grade: 9-12****Prerequisite: None, Dance qualifies as a fine arts or P.E. credit.****Endorsement Pathway: Arts & Humanities – Dance**

This course is designed to introduce students to the fundamental skills of recreational dancing as well as dance history, terminology, choreography, and costuming. Students learn the basics of various dance styles (modern, lyrical, jazz, hip-hop and etc.) and how to evaluate and understand them as a performing art and transmitter of culture.

Dance 1 as a fine arts credit (03830100); Dance I as a PE credit (PES00014)

Dance Team Production I (PE credit), (Fine Arts credit)**Credit: 1, Full Year****Grade: 9-11****Endorsement Pathway: Arts & Humanities – Dance**

This course is designed for students who plan to try out for Elgin's Purple Diamonds dance team. The course covers basic techniques of dance and stretching with auditions for Purple Diamonds taking place in the fall semester. Dance Team as a fine arts credit (03833700); Dance Team as a PE credit (PES00014)

Physical Education I, II, III, IV**Credit: 1, Full Year****Grade: 9-12****Prerequisite: None**

In Physical Education, students acquire the knowledge and skills for movement that provide the foundation for enjoyment, continued social development through physical activity, and access to a physically-active lifestyle. The student exhibits a physically-active lifestyle and understands the relationship between physical activity and health throughout the lifespan. (PES00052)(PES00053)(PES00054)(PES00055)

Marching Band I, II**Credit: 0.5, Fall Semester****Grade: 9-12****Prerequisite: None**

The Wildcat Marching Band performs at all Elgin High School Football games, multiple marching contests, parades and UIL events. A student must take two semesters of Marching Band to equal one physical education credit. Students interested in Colorguard should register for Marching Band. Colorguard incorporates elements of dance combined with spinning/tossing/dancing with apparatus such as flags, rifles and sabres to interpret the music, and add to the visual component of the Wildcat Marching Band. Marching band I and II count as a P.E. equivalent credit (PES00012)

Navy National Defense Cadet Corps (NNDCC) I**Credit: 1, Full Year****Grade: 9-12****Prerequisite: None****Endorsement Pathway: Public Services – Military**

This class serves as the foundation of Navy ROTC and will introduce the students to the NNDCC Program, its background and mission. Curriculum will include citizenship, American government, naval ships, wellness, fitness and first aid. Cadets presenting evidence of successful completion of at least 3 years in NNDCC are entitled to advanced promotion to pay grade E-3 upon initial enlistment in an active or reserve component of the Army, Navy, or Air Force, and pay grade E-2 in the Marine Corps. (PES00004)

Sports Medicine I**Credit: 1, Full Year****Grade: 9-12****Prerequisite: Instructor Approval, does not count for PE credit**

This course provides the opportunity for the study and application of the components of sports medicine including organization and administration, prevention, recognition, evaluation, immediate care of injuries, rehabilitation and management skills, taping and wrapping, first aid/CPR/AED, emergency procedures, nutrition, sports psychology, anatomy. This course does not grant physical education credit. (N1150040)

Sports Medicine II, III

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Sports Medicine I and Instructor Approval, does not count for PE credit

Course provides a more in depth study and application of sports medicine careers, organization and administration. Certifications include Heart saver, CPR/AED, First Aid and Basic Life Support. Students will participate in outside-of-class time homework working with athletes and athletic teams. This course does not grant physical education credit. (N1150041) (N1150044)

Special Programs & Courses

The courses below are for elective credit.

Academic Decathlon

Credit: 1.0, Full Year

Grade: 9-12

Prerequisite: None

This academic, local-credit elective is designed for students wishing to compete in the United States Academic Decathlon. As Decathletes, you'll learn an exciting new theme each year, themes like Russia, World War I, and New Alternatives in Energy: Ingenuity and Innovation. You'll explore seven subjects connected to that theme, from art and science to math and economics. You'll learn to move an audience not just with facts and rhetoric, but with confidence. And you'll never do any of this alone. You'll be working with a team—a team composed of students with a wide range of grades but a single shared goal. You should join the Academic Decathlon not because that goal will be easy to achieve, but because it will be hard.

Aides

Office Aide

Library Aide

Teacher Aide

Counselor Aide

Credit: None

Grade: 12

Prerequisite: up to date on all credits, passing score on all EOC assessments, have no outstanding credit recovery, met post-secondary readiness indicators, met all attendance obligations, counselor, administrator, & parent written approval

This course is designed as an independent study class and is open only to seniors. Students are expected to be able to fulfill duties and responsibilities common to professional environments such as using skills for effective communication and information management as well as understanding social ramifications related to privacy, values, and ethics. Course does not count towards graduation. (85000OFF) (85000LIB) (85000TEA) (85000CSL)

College Test Preparation English

Credit: 0.5, Semester

Grade: 11-12

Prerequisite: None

This course prepares students for college readiness assessments. Specific assessments covered will depend on student goals and may include SAT, ACT, and TSI. Emphasis is on the reading and writing components of these exams. Note this course is for local credit only. (85000TSI)

College Test Preparation Mathematics

Credit: 0.5, Semester

Grade: 11-12

Prerequisite: None

This course prepares students for college readiness assessments. Specific assessments covered will depend on student goals and may include SAT, ACT, and TSI. Emphasis is on the mathematical components of these exams. Note this course is for local credit only. (85000TSI)

Methodology for Academic and Personal Success (MAPS)

Credit: 1.0, Semester

Grade: 9

Prerequisite: None

The course focuses on the skills and strategies necessary for students to make a successful transition into high school and an academic career. The course focuses on self-understanding, decision-making, resiliency, attitude, character education, and leadership to help students maximize personal achievement. Students will develop the specific strategies necessary to achieve their personal and professional goals. The course emphasizes proactive problem-solving, self-determination, and independent thinking and learning skills. As part of goal setting and leadership activities, students may complete an outside community service learning experience in addition to class assignments.

This is a required course for all freshmen. (N1130021)

Navy National Defense Cadet Corps (NNDCC) I**Credit: 1, Full Year****Grade: 9-12****Prerequisite: None****Endorsement Pathway: Public Services – Military**

This class serves as the foundation of Navy ROTC and will introduce the students to the NNDCC Program, its background and mission. Curriculum will include citizenship, American government, naval ships, wellness, fitness and first aid. Cadets presenting evidence of successful completion of at least 3 years in NNDCC are entitled to advanced promotion to pay grade E-3 upon initial enlistment in an active or reserve component of the Army, Navy, or Air Force, and pay grade E-2 in the Marine Corps. (PES00004)

Navy National Defense Cadet Corps (NNDCC) II, III, IV**Credit: 1, Full Year****Grade: 9-12****Prerequisite: NNDCC I****Endorsement Pathway: Public Services – Military**

These courses explore each subject in greater detail with an emphasis on leadership theory, styles and principal. (03160200) (03160300) (03160400)

Off Campus/Early Release**1st Period****8th Period****Credit: None****Grade: 12**

Prerequisite: up to date on all credits, passing score on all EOC assessments, have no outstanding credit recovery, met post-secondary readiness indicators, met all attendance obligations, counselor, administrator, & parent written approval

When deciding to choose an off campus period, the student must keep in mind that he or she must be enrolled in at least five credit courses during a semester to be eligible for participation in UIL activities. A maximum of two off campus periods may be selected from the three periods that are available. Students in danger of not graduating will not receive approval. Course does not count towards graduation. (85000EAR)

Path to College & Career I**Credit: 1, Full Year****Grade: 9****Prerequisite: ECHS student**

The Path-College/Career Prep courses advance intellectual curiosity, conscientiousness, dependability, emotional stability, and perseverance through tasks that foster deeper levels of thinking and reasoning in the four core content areas. Path courses focus on developing the habits and skills that are expected in college study and the workforce. Once a student passes TSI a counselor will enroll the student in the dual credit section of PCC 1. (N1290051)

Path to College & Career II, III, IV**Credit: 1, Full Year****Grade: 10-12****Prerequisite: ECHS student**

The Path-College/Career Prep courses advance intellectual curiosity, conscientiousness, dependability, emotional stability, and perseverance through tasks that foster deeper levels of thinking and reasoning in the four core content areas. Path courses focus on developing the habits and skills that are expected in college study and the workforce. (N1290052) (N1290053) (N1290054)

Sports Medicine I**Credit: 1, Full Year****Grade: 9-12****Prerequisite: Instructor Approval, does not count for PE credit**

This course provides the opportunity for the study and application of the components of sports medicine including organization and administration, prevention, recognition, evaluation, immediate care of injuries, rehabilitation and management skills, taping and wrapping, first aid/CPR/AED, emergency procedures, nutrition, sports psychology, anatomy. This course does not grant physical education credit. (N1150040)

Sports Medicine II, III

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Sports Medicine I and Instructor Approval, does not count for PE credit

Course provides a more in depth study and application of sports medicine careers, organization and administration. Certifications include Heart saver, CPR/AED, First Aid and Basic Life Support. Students will participate in outside-of-class time homework working with athletes and athletic teams. This course does not grant physical education credit. (N1150041) (N1150044)

Fine Arts Courses

The Foundation High School Program with Endorsements requires one fine arts credit.

Art

Art I

Credit: 1, Full Year

Grade: 9-12

Prerequisite: None

Endorsement Pathway: Arts & Humanities – Visual Arts

Art 1 is an introductory art course which integrates art production with the study of basic design and drawing principles, art history, art criticism and exploration. Students will be expected to learn new vocabulary related to each unit studied and express ideas through original artworks using a variety of media such as pencil, charcoal, pastel, colored pencil, collage, scratch board, watercolor, tempura paint, wire, and clay. The goal is for students to gain an understanding and appreciation of art. Art fees may be charged. (03500100)

Art II

Credit: 1, Full Year

Grade: 9-12

Prerequisite: Art I

Endorsement Pathway: Arts & Humanities – Visual Arts

This course is designed to develop drawing skills to an advanced level through exploration of a variety of media, methods, and subjects. Students will be expected to draw from life as well as from memory and imagination. Art history research and vocabulary development are another important component of this course as students learn to make informed judgments about artwork through class discussion and written expression. Career opportunities in art related fields will also be explored. Art fees may be charged. (03500500)

Art III

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Art II

Endorsement Pathway: Arts & Humanities – Visual Arts

Art III integrates creative expression with the study of art history, art criticism and career exploration with an emphasis on individual portfolio development. Students will be expected to develop and organize ideas from the environment, express ideas through original artworks, using a variety of media with appropriate skill and demonstrate understanding of art history and culture. Students will also make informed judgments about personal artworks and the artwork of others through class discussion and written expression. Art fees may be charged. (03501300)

Art IV

Credit: 1, Full Year

Grade: 11-12

Prerequisite: Art III

Endorsement Pathway: Arts & Humanities – Visual Arts

Emphasis in this course is on development of individual style and improved style and improved technique. Students will be required to create artworks based on a theme and will continue to develop their portfolios, choosing projects, media and methods to achieve a desired expressive intent. Students are encouraged to exhibit their work as well as enter art competitions. Continued career exploration and art history research are included in this course. Art fees may be charged. (03502300)

Dual Credit Art Appreciation

Credit: 1, Semester

Grade: 9-12

Prerequisite: Complete ACC requirements, including TSI compliance, by deadlines

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts. Note: A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts. (03500110)

AP Studio Art Two-Dimensional Design

Credit: 1, Full Year

Grade: 11-12

Recommended Prerequisite: Art II or higher

Prerequisite: Art Portfolio

Endorsement Pathway: Arts & Humanities – Visual Arts

This course is designed for students interested in mastering their skills and continuing their education in art beyond high school. AP Art students are required to submit a portfolio of artwork submitted digitally and mailed in as well as written essay. The portfolio consists of four sections – Breadth, Concentration, Quality and a small essay. This class is open to drawing, painting, mixed media and digital art as long as it is a 2-dimensional work based on the Elements of Art and Principles of Design. Students must be able to work on an individual basis in class, be willing to dedicate time at home for work on assignments and projects, and complete assignments during the summer prior to enrollment in the course. Students are required to submit an AP Portfolio of 24 college-level pieces at the conclusion of the course. Art fees may be charged. (A3500400)

AP Drawing

Credit: 1, Full Year

Grade: 11-12

Prerequisite: Art II or higher, Art Portfolio

Endorsement Pathway: Arts & Humanities – Visual Arts

This course requires students to produce works of art that reflect issues related to drawing. These works may include traditional and experimental approaches to drawing while exploring a variety of drawing media such as graphite, charcoal, pastel, oil pastel, colored pencil, paint and mixed media. AP Art students are required to submit a portfolio of artwork submitted digitally and mailed in as well as written essay. The portfolio consists of four sections – Breadth, Concentration, Quality and a small essay. Students must be able to work on an individual basis in class, be willing to dedicate time at home for work on assignments and projects, and complete assignments during the summer prior to enrollment in the course. Students are required to submit an AP Portfolio of 24 college-level pieces at the conclusion of the course. Art fees may be charged. (A3500300)

Band

Non-Varsity Band I, II, III, IV

Varsity Band I, II, III, IV

Credit: 1, Full Year

Grade: 9-12

Prerequisite: by Audition

Prerequisite for Level II and above: credit from previous level course

Endorsement Pathway: Arts & Humanities – Band

Varsity (Wind Ensemble) and Non-Varsity (Symphonic and Honor Bands) placement is by audition only. As a prerequisite all students must participate in the Wildcat Marching Band. These organizations perform in multiple concerts throughout the school year and participate in competitions during the spring semester. The opportunity to participate in TMEA auditions as well as UIL Solo and Ensemble competitions at the Regional and State levels are available to all band students who meet eligibility requirements. Opportunities to participate in Jazz Ensemble are also available through membership in the Elgin High School Concert bands. (03150100) (03150200) (03150300) (03150400)

Marching Band I, II, III, IV

Credit: 0.5, Fall Semester

Grade: 9-12

Prerequisite: None

The Wildcat Marching Band performs at all Elgin High School Football games, multiple marching contests, parades and UIL events. A student must take two semesters of Marching Band to equal one physical education credit. Students interested in Colorguard should register for Marching Band. Colorguard incorporates elements of dance combined with spinning/tossing/dancing with apparatus such as flags, rifles and sabres to interpret the music, and add to the visual component of the Wildcat Marching Band. Marching band I and II count as a P.E. equivalent credit (PES00012); III and IV will count as local credit. (84200MCH)

Choir

Beginning Treble Chorus I –, II, III, IV

Credit: 1, Full Year

Grade: 9-12

Prerequisite for Level II and above: credit from previous level course

Endorsement Pathway: Arts & Humanities – Choir

Beginning Treble Chorus I is open to all interested female students of varied vocal talents and abilities. Everyone will learn how to sing well and improve. Students must be willing to sing actively each day and will be expected to learn music chosen by the director, as well as do assigned music-related tasks during class. In addition to learning how to read music and sing a variety of songs, students will prepare for public performances and assemblies. It is important to note that one does not have to be a "good singer" to enroll in this course. The beginning mixed chorus is a non-auditioned mixed group. Students are provided instruction in creating, performing, conducting, listening to, and analyzing music. (03150900, 03151000, 03151100, 03151200)

Men's Chorus I, II, III, IV

Credit: 1, Full Year

Grade: 9-12

Prerequisite for Level II and above: credit from previous level course

Endorsement Pathway: Arts & Humanities – Choir

Men's Chorus is open to all interested male students of varied vocal talents and abilities. Everyone will learn how to sing well and improve. Students must be willing to sing actively each day and will be expected to learn music chosen by the director, as well as do assigned music-related tasks during class. In addition to learning how to read music and sing a variety of songs, students will prepare for public performances and assemblies. It is important to note that one does not have to be a "good singer" to enroll in this course. The men's chorus is a non-auditioned mixed group. Students are provided instruction in creating, performing, conducting, listening to, and analyzing music. (03150900, 03151000, 03151100, 03151200)

Varsity Treble Chorus I, II, III, IV

Credit: 1, Full Year

Grade: 10-12

Prerequisite: by Audition

Endorsement Pathway: Arts & Humanities – Choir

The varsity treble Chorus is an elite mixed group of 30 singers. Members of this advanced chorus are enrolled by audition only and must be willing to put in the time and effort it takes to rehearse and perform difficult music. Students will participate in at least one competition where they will represent our school as they sing to compete against other choirs from across the country. Sight-singing, reading music notation, listening skills, healthy vocal technique, self-evaluation, and concert performances make up the content and grade of the course. Students must be willing to sing actively each day. An end of semester performance will be scheduled, and additional performances and field trips will be added subject to member availability. A small amount of time, outside of the school day may be scheduled for dress rehearsals and performances. (03150900, 03151000, 03151100, 03151200)

Dance

Dance I (PE credit), (Fine Arts credit)

Credit: 1, Full Year

Grade: 9-12

Prerequisite: None, Dance qualifies as a fine arts or P.E. credit.

Endorsement Pathway: Arts & Humanities – Dance

This course is designed to introduce students to the fundamental skills of recreational dancing as well as dance history, terminology, choreography, and costuming. Students learn the basics of various dance styles (modern, lyrical, jazz, hip-hop and etc.) and how to evaluate and understand them as a performing art and transmitter of culture.

Dance 1 as a fine arts credit (03830100); Dance I as a PE credit (PES00014)

Dance II, III, IV**Credit: 1, Full Year****Grade: 10-12****Prerequisite: None****Endorsement Pathway: Arts & Humanities – Dance**

Four basic strands—perception, creative expression and performance, historical and cultural heritage, and critical evaluation—provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. Dance students develop perceptual thinking and moving abilities in daily life that promote understanding of themselves and others and allow them to interact effectively in the community. By mastering movement principles and skills, students develop self-discipline, and healthy bodies that move expressively, efficiently, and safely through space and time with controlled energy. (03830200) (03830300) (03830400)

Dance Team Production I (PE credit), (Fine Arts credit)**Credit: 1, Full Year****Grade: 9-11****Endorsement Pathway: Arts & Humanities – Dance**

This course is designed for students who plan to try out for Elgin’s Purple Diamonds dance team. The course covers basic techniques of dance and stretching with auditions for Purple Diamonds taking place in the fall semester. Dance Team as a fine arts credit (03833700); Dance Team as a PE credit (PES00014)

Dance Team Production II, III, IV**Credit: 1, Full Year****Grade: 10-12****Prerequisite: by Audition****Endorsement Pathway: Arts & Humanities – Dance**

Students utilize a variety of dance forms in a highly visible and competitive organization as members of Elgin’s Purple Diamonds dance team. The curriculum meets and exceeds the requirements under the Dance TEKS. This course involves extensive rehearsals and performances outside the school day. (03833800) (03833900) (03834000)

*Floral Design***Floral Design****Credit: 1, Full Year****Grade: 10-12****Prerequisite: None****Endorsement Pathway: Arts & Humanities – Visual Arts**

This course is designed to develop skills in the design and arrangement of flowers, foliage, and related plant materials for interior locations. Students learn the history of floral design, how to identify flowers and plants and how to use them artistically. Students will create floral arrangements in relation to contemporary designs, business practices, and specialty items such as weddings, creativity, and careers in the floral industry. Fees may be charged. (13001800)

*Theatre***Musical Theatre I****Credit: 1, Full Year****Grade: 9-12****Prerequisite: None****Endorsement Pathway: Arts & Humanities - Theatre**

Musical Theatre will expose students to a wide range of on-stage performance disciplines, including acting performance, vocal performance, and dance performance. The course will also provide an atmosphere in which students benefit from a teaching and learning experience in these performance disciplines of musical theatre. Students will receive comprehensive and rigorous instruction so that they may make informed choices about the craft, college, and the profession. The course will enhance and cultivate the creative gifts of each student while encouraging a sense of self-confidence. The course will enable students to study and perform the varied styles of musical theatre with special attention to the principles of stage movement, stage vocal technique, stage choreography, acting, characterization, and other aspects of a musical production. (03251900)

Musical Theatre II, III, IV**Credit: 1, Full Year****Grade: 9-12****Prerequisite: Musical Theatre I****Endorsement Pathway: Arts & Humanities - Theatre**

This course includes a study of four basic strands--foundations: music literacy; creative expression; historical and cultural relevance; and critical evaluation and response--provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. The foundation of music literacy is fostered through reading, writing, reproducing, and creating music, thus developing a student's intellect. Through creative expression, students apply their music literacy and the critical-thinking skills of music to sing, play, read, write, and/or move. By experiencing musical periods and styles, students will understand the relevance of music to history, culture, and the world, including the relationship of music to other academic disciplines and the vocational possibilities offered. Through critical listening, students analyze, evaluate, and respond to music, developing criteria for making critical judgments and informed choices. (03252000)(03252100)(03252200)

Technical Theatre I**Credit: 1, Full Year****Grade: 9-12****Prerequisite: None****Endorsement Pathway: Arts & Humanities - Theatre**

This class includes sound, lights, make-up, set design, props and costuming. Students will complete several art projects related to color and design. Most projects are built around themes for theatrical productions. Students can be beginners or advanced at sketching and drawing. Students will also study art history, culture, and effects of events in the world on art and theater. Students will be required to make presentations and while acting is not the focus of the class, acting related exercises are included to give the technician experience in all theatrical activities. (03250500)

Technical Theatre II, III, IV**Credit: 1, Full Year****Grade: 9-12****Recommended Prerequisite: Technical Theater I****Endorsement Pathway: Arts & Humanities - Theatre**

This course includes a study of stage design, publicity, lighting, sound and other aspects of theatrical production in conjunction with actual stage production. Theatre history and careers in theatre will also be discussed. (03250600) (03251100) (03251200)

Theatre Arts I**Credit: 1, Full Year****Grade: 9-12****Prerequisite: None****Endorsement Pathway: Arts & Humanities - Theatre**

This course is an introduction to theater. Through a variety of experiences, students will communicate in a dramatic form, make artistic choices, solve problems, build positive self-concepts and relate interpersonally. Through perceptual studies students will increase their understanding of self and others. This class involves studying theatrical terms, theater history and acting. After learning some basics, this is a performance-dominated class. This class also includes many art projects and students are expected to be responsible for cleaning up while working on projects. (03250100)

Theatre Arts II, III, IV**Credit: 1, Full Year****Grade: 9-12****Prerequisite: Theater Arts I****Endorsement Pathway: Arts & Humanities - Theatre**

Advanced Theater classes are available to those students who have enjoyed and successfully completed either Theater Arts 1 or Technical Theater. The advanced classes are mostly performance based. The student will construct scenery, study traditional literary genres, perform advanced scene work, write monologues, scenes, and finally plays. Students must be willing to participate in numerous performance activities. Class work will focus on the extra-curricular performances during tech, dress, and performance weeks. (03250200) (03250300) (03250400)

Varsity Theatre Production I**Credit: 1, Full Year****Grade: 9-12****Prerequisite: by Audition****Endorsement Pathway: Arts & Humanities - Theatre**

This is a class for those who truly enjoy the work involved in putting together a production. This is a performance class for serious and dedicated students. This is a varsity level class where students are expected to know and enjoy the work involved with putting on a production. Students in this class are expected to be a part of the extra-curricular theater productions. The student will concentrate on acting, directing, writing, design, and stagecraft. This means the student will participate in after school rehearsals and competitions. Class time is dedicated to extra-curricular performances. (03250700)

Varsity Theatre Production II, III, IV**Credit: 1, Full Year****Grade: 10-12****Prerequisite: Theater Production I, by Audition****Endorsement Pathway: Arts & Humanities - Theatre**

All aspects of production from a technical standpoint will be explored – set design, lights, and sound and theatre history. Special emphasis will be given to character development, voice, and diction and body control. This course requires after-school rehearsals and performance times, focuses on fall and spring show productions. Students must be willing to participate both as actors and crewmembers. (03250800) (03250900) (03251000)

Dual Credit Theatre Arts**Credit: 1, Full Year****Grade: 9-12****Prerequisite: Complete ACC requirements, including TSI compliance, by deadlines****Endorsement Pathway: Arts & Humanities - Theatre**

Drama 1310 Introduction to Theatre. A general survey of theater including exploration of dramatic literature, theory, and criticism; production arts, skills and crafts; and theater history from 500 BC to present. Course requires good reading and writing skills. Attendance at plays is a requirement. (03251300)

Career, Technology, and Education (CTE) Courses

CTE courses are listed in alphabetical order. Review Endorsement Pathways under the Endorsement Pathways for Graduation section of the Course Guide to identify and select a coherent sequence of courses (pathway) that will meet endorsement requirements for graduation. Endorsements indicated within course descriptions align with the pathways presented in this course guide and do not reflect all possible endorsements associated with a course.

Advanced Animal Science

Credit: 1, Full Year

Grade: 11-12

Prerequisite: Biology, Chemistry or IPC; Algebra 1 and Geometry; either Small Animal Management, Equine Science, or Livestock Production.

Recommended Prerequisite: Veterinary Medical Applications

Endorsement Pathway: Business & Industry - Animal Science

This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and lab experiences. Students will learn about animal health and services with classroom and hands-on experiences, including shadowing at various local businesses. Students will travel to MD Anderson Research Center, Elgin Veterinary Hospital, and Elgin Breeding Service, to learn about various techniques in veterinarian medicine. Upon completion of this course and outside internship hours, students will have the opportunity to take the Texas Veterinary Medical Association Certified Veterinary Assistant Exam. (13000700)

Advanced Plant and Soil Science

Credit: 1, Full Year

Grade: 11-12

Recommended Prerequisites: Biology, IPC, Chemistry, or Physics; a minimum of one credit in the Agriculture, Food, and Natural Resources cluster required

Endorsement Pathway: Business & Industry - Plant Science

This course satisfies a high school science graduation requirement. This course is designed to involve students with horticulture (plant) sciences with an emphasis on hands on skills while teaching the students career opportunities using plants in horticulture. In addition to caring for and experimenting with plants in the greenhouse, students will conduct investigations, laboratory practices, and field exercises to develop an understanding of plant and soil science. (13002100)

Advertising

Credit: 0.5, Semester

Grade: 9-12

Recommended Prerequisite: Principles of Business, Marketing, and Finance

Endorsement Pathway: Business & Industry - 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. Students will create advertising using print, broadcast, and digital media. The course explores the social, ethical, and legal issues of advertising, historical influences, strategies and media decision processes as well as integrated marketing communications. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge. (13034200)

Agricultural Mechanics and Metal Technology

Credit: 1, Full Year

Grade: 10-12

Recommended Prerequisite: Principles of Agriculture, Food and Natural Resources

Endorsement Pathway: Business & Industry - Welding

This is a hands-on learning course that allows students to develop skills in metal working, welding, tool use, and carpentry. Students will also be exposed to electricity, plumbing, and masonry and will have the opportunity to plan and construct metal and wood projects. Students who successfully complete the full year with an 80 or better will receive state articulated credit. (13002200)

Anatomy and Physiology**Credit: 1, Full Year****Grade: 10-12****Prerequisite: Biology and a second science credit****Endorsement Pathway: Public Services – Health Science and STEM – Science, Math and Science**

The Anatomy and Physiology 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 study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. (13020600)

Audio Video Production I/Audio Video Production I Lab**Credit: 2, Full Year****Grade: 9-12****Recommended Prerequisite: Principles of Arts, Audio Video and Communications****Endorsement Pathway: Business & Industry – Audio Visual and Communications**

Audio/Video Production focuses on expanding the students' field of experience in all aspects of the audio/video industry with an emphasis on underlying principles of video technology. The class will be expected to work collaboratively as a production group. Each grading term the production group will be required to produce three projects: develop a device or idea that may be used in pre-production, production, or post-production; a lesson that will be presented the first year students (topics are approved by instructor); and a completed audio/video project. Two of six of the audio/video projects will focus on a theme of television production encompassing elements of studio programming. At the conclusion of each term the production group will reflect on the success and shortfalls.

(13008510)

Audio Video Production II/Audio Video Production II Lab**Credit: 2, Full Year****Grade: 10-12****Prerequisite: Audio Video Production I****Endorsement Pathway: Business & Industry – Audio Visual and Communications**

Students will prepare for careers in audio and video technology and film production that span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop and advanced understanding of the industry with a focus on pre-production, production and post-production. Students will have opportunities to earn Adobe certification. (13008610)

Automotive Basics**Credit: 1, Full Year****Grade: 9-12****Prerequisite: None****Endorsement Pathway: Business & Industry - Transportation**

Automotive Basics includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. (13039550)

Automotive Technology I**Credit: 2, Full Year****Grade: 9-12****Prerequisite: by Application****Recommended Prerequisite: Automotive Basics****Endorsement Pathway: Business & Industry - Transportation**

Automotive Technology I includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology I includes applicable safety and environmental rules and regulations. In Automotive Technology I, students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. (13039600)

Automotive Technology II**Credit: 2, Full Year****Grade: 11-12****Prerequisite: Automotive Technology I****Endorsement Pathway: Business & Industry - Transportation**

Automotive Technology II includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology II includes applicable safety and environmental rules and regulations. In Automotive Technology II, students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. (13039700)

Basic Collision Repair and Refinishing**Credit: 1, Full Year****Grade: 9-12****Prerequisite: Automotive Basics I recommended****Endorsement Pathway: Business & Industry - Transportation**

Basic Collision Repair and Refinishing include knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. (13039750)

Business Law**Credit: 1, Full Year****Grade: 11-12****Prerequisite: None****Endorsement Pathway: Business & Industry – Business, Marketing, and Finance**

Students analyze the social responsibility of business and industry regarding the significant issues relating to the legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, business organizations, concept of agency and employment, and real property. Students apply technical skills to address business applications of contemporary legal issues. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions. (13011700)

Business Management**Credit: 1, Full****Year Grade: 10-12****Prerequisite: None****Endorsement Pathway: Business & Industry – Business, Marketing, and Finance**

This course introduces basic management concepts and leadership styles, explores managerial functions, economic and social components of productivity, international business, and human relations. Students will develop an understanding of the changing nature of the business environment, concepts of business integrity, and develop and implement a business plan to demonstrate in an actual management project (in or out of the classroom environment). This course requires a student commitment to public speaking and presentations. Students who successfully complete the full year with an 85 or better will receive state articulated credit. (13012100)

Career Preparation I**Credit: 2, Full Year****Grade: 11-12****Prerequisite: none**

Career Preparation I 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. A student shall be awarded one credit for successful completion of this course, when the student participates in at least an average of 10 hours, but less than 15 hours, per week of a paid or unpaid, laboratory- or work-based application of previously studied knowledge and skills related to any of the 16 career clusters. (12701300)

Career Preparation I for Design & Multimedia Arts**Credit: 2, Full Year****Grade: 11-12****Prerequisite: none**

Career Preparation I for Design & Multimedia Arts 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. A student shall be awarded one credit for successful completion of this course, when the student participates in at least an average of 10 hours, but less than 15 hours, per week of a paid or unpaid, laboratory- or work-based application of previously studied knowledge and skills related to any of the 16 career clusters. (12701300)

Career Preparation II**Credit: 2, Full Year****Grade: 11-12****Prerequisite: Career Preparation I**

Career Preparation II 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. A student shall be awarded one credit for successful completion of this course, when the student participates in at least an average of 10 hours, but less than 15 hours, per week of a paid or unpaid, laboratory- or work-based application of previously studied knowledge and skills related to any of the 16 career clusters. (12701400)

Child Development**Credit: 1, Full Year****Grade: 10-12****Prerequisite: None****Endorsement Pathway: Public Services – Teaching & Training**

This course focuses on the many areas of development of children from conception through childhood. Instruction addresses the principles and procedures for promoting the physical, emotional, social and intellectual development of young children, including those with special needs. Other topics include child nutrition, the impact of technology on child development and health, public policies affecting children, characteristics of quality child care, career options related to the care and education of children and the management of multiple family, community, and family roles. (13024700)

Collision Repair**Credit: 2, Full Year****Grade: 10-12****Recommended Prerequisite: Basic Collision Repair and Refinishing****Endorsement Pathway: Business & Industry - Transportation**

Collision repair and refinishing services include knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing. (13039800)

Criminal Investigation**Credit: 1, Full Year****Grade: 11-12****Prerequisite: Principles of Law, Public Safety, Corrections, and Security****Endorsement Pathway: Public Services – Law Enforcement**

Criminal Investigation is a course that introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence. (13029550)

Digital Art & Animation**Credit: 1, Full Year****Grades: 9-12****Prerequisite: proficiency in the knowledge and skills relating to Technology Applications, Grades 6-8****Recommended Prerequisite: Art I****Endorsement Pathway: Business & Industry – Design & Multimedia Arts (EHS Yearbook)**

Digital Art and Animation consists of computer images and animations created with digital imaging software. Digital Art and Animation has applications in many careers, including graphic design, advertising, web design, animation, corporate communications, illustration, character development, script writing, storyboarding, directing, producing, inking, project management, editing, and the magazine, television, film, and game industries. Students in this course will produce various real-world projects and animations. (03580500)

Digital Design and Media Productions**Credit: 1, Full Year****Grade: 9-12****Prerequisite: proficiency in the knowledge and skills relating to Technology Applications, Grades 6-8****Endorsement Pathway: Business & Industry – Design & Multimedia Arts (EHS Yearbook)**

Digital Design and Media Production will allow students to demonstrate creative thinking, develop innovative strategies, and use communication tools in order to work effectively with others as well as independently. Students will gather information electronically, which will allow for problem solving and making informed decisions regarding media projects. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will demonstrate a thorough understanding of digital design principles that is transferable to other disciplines. (03580400)

Digital Media**Credit: 1, Full Year****Grade: 9-12****Recommended Prerequisite: Principles of Information Technology****Endorsement Pathway: Business & Industry – Information Technology**

Digital Media is a challenging course designed to prepare the student for success in a rapidly evolving global business environment. Ethical use of the internet and existing multimedia will be discussed. Through the study of digital and interactive media and its application in information technology, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment. (13027800)

Dollars & Sense**Credit: 0.5, Semester****Grade: 11-12****Prerequisite: None****Endorsement Pathway: Business & Industry – Business, Marketing, and Finance**

Dollars and Sense focuses on consumer practices and responsibilities, money-management processes, decision-making skills, impact of technology, and preparation for human services careers. (13024300)

Equine Science

Credit: 0.5, Semester

Grade: 10-12

Prerequisite: None

Endorsement Pathway: Business & Industry - Animal Science

To be prepared for careers in the field of equine science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to equine systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. The care and management of horses has developed into Equine Science, a multi-million dollar industry. The course will help the novice and the student who is already active in the horse industry to learn selection, nutrition, reproduction health, judging, and management of horses, donkeys or mules. Judging trips and tours are an integral and common part of the course. Students who successfully complete the full year with an 80 or better will receive state articulated credit. (13000500)

Extended Career Prep I

Credit: 3, Full Year

Grade: 11-12

Prerequisite: None

Career Preparation I 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. (12701305)

Floral Design

Credit: 1, Full Year

Grade: 10-12

Prerequisite: None

This course meets the fine arts graduation requirement. This course is designed to develop skills in the design and arrangement of flowers, foliage, and related plant materials for interior locations. Students learn the history of floral design, how to identify flowers and plants and how to use them artistically. Students will create floral arrangements in relation to contemporary designs, business practices, and specialty items such as weddings, creativity, and careers in the floral industry. Fees may be charged. (13001800)

Forensic Science

Credit: 1, Full Year

Grade: 11-12

Prerequisite: Biology & Chemistry

Recommended Prerequisite: Principles of Law, Public Safety, Corrections and Security; Law Enforcement I

Endorsement Pathway: Public Services – Law Enforcement

This course meets the high school advanced science requirement. Forensic science is a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminalist behavior. Students will learn basic terminology and investigative procedures related to crime scene, question building, interviewing, criminal behavior characteristics, truth detection methodology, and scientific procedures used to solve crimes. Students will have the opportunity to collect and analyze evidence through case studies and mock crime scenes. Lab activities will be based on crime scene scenarios and analyzing fingerprints, ballistics, and blood spatter. Students will learn about the history, legal aspects of forensic science, and career options available in the forensic field. (13029500)

Global Business

Credit: 0.5, Semester

Grade: 10-12

Prerequisite: None

Endorsement Pathway: Business & Industry – Business, Marketing, and Finance

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. (13011800)

Greenhouse Operation and Production

Credit: 1, Full Year

Grade: 10-12

Prerequisite: None

Endorsement Pathway: Business & Industry - Plant Science

To be prepared for careers in horticultural systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of greenhouse production techniques and practices. (13002050)

Health Science Theory

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Biology

Endorsement Pathway: Public Services – Health Sciences

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. To pursue a career in the health science industry, students should recognize, learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities, recognize limitations, and understand the implications of their actions. (13020400)

Horticultural Science

Credit: 1, Full Year

Grade: 10-12

Prerequisite: None

Endorsement Pathway: Business & Industry - Plant Science

This exploratory course is designed as an introduction to horticultural sciences with emphasis on technical skills and career opportunities, and certifications. Students will gain hands-on experience working with plants. Students will produce and grow greenhouse and nursery plants. (13002000)

Instructional Practices

Credit: 2, Full Year

Grade: 11-12

Prerequisite: Teacher Approval

Recommended Prerequisite: Principles of Education and Training, Child Development

Endorsement Pathway: Public Services – Teaching & Training

This course is designed to prepare high school students with skills to become a classroom teacher in the field of early childhood education and school age education. Students will work under the supervision of a career education instructor and classroom teacher preparing instructional materials and group activities. Students learn to plan and direct educational environments, assist with record keeping, and complete other responsibilities of education personnel. (13014400)

Law Enforcement I**Credit: 1, Full Year****Grade: 10-12****Recommended Prerequisite: Principles of Law, Public Safety, Corrections and Security****Endorsement Pathway: Public Services – Law Enforcement**

This course will provide a general overview of current law enforcement procedures, communication skills, criminal law, law enforcement terminology, traffic stops, basic field notes and police incident report writing; and basic crime scene procedures. The course will also include an overview of the history, organization and functions of local, state, and federal law enforcement. Students who successfully complete the full year with an 80 or better will receive state articulated credit. (13029300)

Law Enforcement II**Credit: 1, Full Year****Grade: 10-12****Recommended Prerequisites: Law Enforcement I****Endorsement Pathway: Public Services – Law Enforcement**

This course will provide knowledge and skills necessary to prepare for a career in law enforcement. The study of common police procedures telecommunications, advanced field note taking and report writing; use of force; arrest procedures; search and pat down procedures; crowd control; accident investigations felony traffic stops; courtroom testimony. The course will also include the ethical and legal responsibilities of law enforcement officers. (13029400)

Livestock Production**Credit: 1, Full Year****Grade: 10-12****Prerequisite: None****Endorsement Pathway: Business & Industry - Animal Science**

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry. (13000300)

Medical Microbiology**Credit: 1, Full Year****Grade: 10-12****Prerequisite: Biology and Chemistry****Recommended Prerequisite: a course from the Health Science cluster****Endorsement Pathway: Public Services – Health Science**

Students in Medical Microbiology explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases. (13020700)

Paint and Refinishing**Credit: 2, Full Year****Grade: 10-12****Recommended Prerequisite: Basic Collision Repair and Refinishing or Collision Repair****Endorsement Pathway: Business & Industry - Transportation**

Paint and refinishing services include knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing. Career and technical programs enable students to gain entry-level employment in a high-skill, high-wage job and/or to continue their education. Students completing this course will have the opportunity to earn an industry recognized certification. (13039900)

Pathophysiology**Credit: 1, Full Year****Grade: 11-12****Prerequisite: Biology and Chemistry****Recommended Prerequisite: a course from the Health Science cluster****Endorsement Pathway: Public Services – Health Science**

In Pathophysiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology. (13020800)

Practicum in Agriculture, Food, and Natural Resources**Credit: 2, Full Year****Grade: 11-12****Prerequisite: Audio Video Production II and Audio Video Production II lab****Endorsement Pathway: Business & Industry – Welding**

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 (AFNR) cluster. The practicum is designed to give students supervised practical application of knowledge and skills in the AFNR cluster. 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. (13002500)

Practicum in Audio Video Production**Credit: 2, Full Year****Grade: 11-12****Prerequisite: Audio Video Production II and Audio Video Production II lab****Endorsement Pathway: Business & Industry – Audio Visual and Communications**

Students will learn the use of analog and digital video cameras, editing software, and other related video and audio hardware and software to create video productions. Students will gain understanding of copyright laws and ethical acquisition of digital and video information. This course includes basic camera techniques, story/script writing, production, scheduling, lighting and audio recording techniques, postproduction and broadcasting. Projects will consist of the following genres depending on the length of each grading period: One-shot, Stop-Motion, Public Service Announcements, and Documentaries. (13008700)

Practicum in Business Management**Credit: 2, Full Year****Grade: 11-12****Recommended Prerequisite: Business Management****Endorsement Pathway: Business & Industry – Business, Marketing, and Finance**

Elgin ISD's Practicum in Business Management course is affiliated with the national INCubator entrepreneurship program. As part of the INCubator program, student will work in teams to create a working business and minimum viable product. Students will learn about identifying market opportunities, creating and evaluating business ideas, and exploring the opportunities in starting their own business by developing a basic business plan. 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. The students must prepare an actual business development project. Students will work with community and industry leaders to create a pitch for their business as a culminating project. (13012200)

Practicum in Education and Training**Credit: 2, Full Year****Grade: 10-12****Prerequisite: Instructional Practices and instructor approval****Endorsement Pathway: Public Services – Teaching & Training**

Practicum in Education and Training is a field-based internship that provides background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school- aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel. (13014500)

Practicum in Law, Public Safety, Corrections, and Security**Credit: 2, Full Year****Grade: 12****Prerequisite: None****Endorsement Pathway: Public Services – Law Enforcement**

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 Law, Public Safety, Corrections, and Security Career Cluster. 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 level of experience (13030100)

Practicum in Manufacturing**Credit 2, Full Year****Grade: 12****Prerequisite: None****Endorsement Pathway: Business & Industry - Welding**

The Practicum in Manufacturing course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. (13033000)

Practicum in Transportation Systems**Credit: 2, Full Year****Grade: 11-12****Recommended Prerequisite: Automotive Technology II****Endorsement Pathway: Business & Industry - Transportation**

This is a capstone course for the Automotive Technology pathway. Students will have the opportunity to gain an industry-recognized certification. Automotive Technology includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology includes applicable safety and environmental rules and regulations. In Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. (13040450)

Principles of Agriculture, Food, and Natural Resources

Credit: 1, Full Year

Grade: 9-12

Prerequisite: None

Endorsement Pathway: Business & Industry – Welding, Animal, Plant

To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. Students will learn the history of FFA, Parliamentary Procedure, History of Agriculture, breeds of livestock, Plant and Soil Science and basic mechanics. Opportunities will be made available to introduce students to FFA. (13000200)

Principles of Arts, Audio Video Technology, and Communications

Credit: 1, Full Year

Grade: 9

Prerequisite: None

Endorsement Pathway: Business & Industry – Audio Visual and Communications

Students will learn the use of analog and digital video cameras, editing software, and other related video and audio hardware and software to create video productions. Students will gain understanding of copyright laws and ethical acquisition of digital and video information. This course includes basic camera techniques, story/script writing, production, scheduling, lighting and audio recording techniques, postproduction and broadcasting. Projects will consist of the following genres: One-shot, Stop-Motion, Public Service Announcements, and Documentaries. (13008200)

Principles of Business, Marketing, and Finance

Credit: 1, Full Year

Grade: 9-11

Prerequisite: None

Endorsement Pathway: Business & Industry – Business, Marketing, and Finance

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, 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. (13011200)

Principles of Education and Training

Credit: 1, Full Year

Grade: 9-10

Prerequisite: None

Endorsement Pathway: Public Services – Teaching & Training

This course is designed to introduce learners to the various careers available within the education and training career cluster. Students use self-knowledge and educational and career information to analyze various careers. Students will also gain an understanding of the basic knowledge and skills essential to careers with this cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area. (13014200)

Principles of Health Science

Credit: 1, Full Year

Grades: 9-10

Prerequisite: None

Endorsement Pathway: Public Services – Health Sciences

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities, recognize limitations, and understand the implications of their actions. (13020200)

Principles of Law, Public Safety, Corrections, and Security**Credits: 1, Full Year****Grade: 9-12****Prerequisite: None****Endorsement Pathway: Public Services – Law Enforcement**

This course introduces students to professions in law enforcement, security, corrections, and fire 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, security, and corrections. (13029200)

Professional Communications (Speech)**Credit: .5, Semester****Grade: 9-12****Prerequisite: 8161- None**

This course is designed to enhance and refine communication skills by learning and practicing verbal, non-verbal and listening skills and interpersonal, group and professional situations. It is designed to prepare students for college and job interviews and for work-related dialogues between customers, employers and fellow employees. Students who qualify for dual credit can earn college credit hours taking this course. **This course will satisfy the district speech requirement.** (13009900)

Small Animal Management**Credit: 0.5, Semester****Grade: 10-12****Prerequisite: None****Endorsement Pathway: Business & Industry - Animal Science**

This course will prepare students for careers in the field of animal science. Students need to acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, and industry expectations. Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats. (13000400)

Social Media Marketing**Credit: 0.5, Semester****Grade: 9-12****Recommended Prerequisite: Principles of Business, Marketing, and Finance or any marketing course****Endorsement Pathway: Business & Industry - Business, Marketing, and Finance**

Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. The students will learn how to manage a successful social media presence for an organization; techniques for gaining customer and consumer buy-in to achieve their marketing goals; and, how to properly select the social media platforms to engage consumers, monitor and measure the results of these efforts. (13034650)

Turf Grass Management**Credit: 0.5, Semester****Grade: 10-12****Prerequisite: None****Endorsement Pathway: Business & Industry – Plant**

Turf Grass Management is designed to develop an understanding of turf grass management techniques and practices. This course centers around career opportunities and technical knowledge and skills related to horticultural systems and the workplace. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. (13001950)

Veterinary Medical Applications**Credit: 1, Full Year****Grade: 11-12****Prerequisite: Equine Science, Small Animal Management, or Livestock Production****Endorsement Pathway: Business & Industry - Animal Science**

This course is designed to introduce students to a career in veterinary science as the basic concepts and skills of the veterinary industry. Such skills include safety and sanitations, terminology, hospital management, and proper handling and restraining techniques. During this course, students will obtain the knowledge and skills that are essential in any veterinary setting. Students will have the opportunity to become certified veterinary assistants. (13000600)

Video Game Design**Credit: 1, Full Year****Grade: 9-12****Recommended Prerequisite: Principles of Art, Audio Visual Technology, and Communications; Digital Media and Computer Programming I****Endorsement Pathway: Business & Industry – Information Technology**

Introduction to electronic game development and game development careers includes an examination of the history and philosophy of games, the game production process, employee factors for success in the field, and current issues and practices in the game development industry. Students will collaborate with one another, with their instructor, and with various electronic communities to solve gaming problems presented through the course. Data analysis will include the identification of task requirements, planning search strategies, and the use of programming concepts to access, analyze, and evaluate information needed to design games. (13009970)

Virtual Business**Credit: 0.5, Semester****Grades 10-12****Prerequisite: None****Endorsement Pathway: Business & Industry – Business Management**

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. (13012000)

Welding I**Credit: 2, Full Year****Grade: 10-12****Prerequisite: by Application****Recommended Prerequisite: Algebra I****Endorsement Pathway: Business & Industry - Welding**

Rapid advances in technology have created new career opportunities and demands in many industries. Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system and apply them to personal career development. Welding provides the knowledge, skills, and technologies required for employment opportunities in metal technology systems. Various types of welding techniques will be explored. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for success. Students who successfully complete the full year with an 85 or better will receive locally articulated credit. (13032300)

Welding II**Credit: 2, Full Year****Grade: 11-12****Prerequisite: Welding I****Recommended Prerequisite: Algebra I or Geometry****Endorsement Pathway: Business & Industry - Welding**

Welding II builds on the knowledge and skills developed in welding. Students will develop advanced welding concepts and skills related to personal and career development. Students will develop skills in the use of gas metal arc welding, gas tungsten welding, flux cored arc welding, and other advanced welding techniques. 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.

(13032400)