



Course Catalog

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English

(All English courses not used to fulfill core requirements count as academic electives.)

Course Name	State Course Number	Course Description	Delivery	Credits
Tenth Grade Literature and Composition	23.06200	This course helps students develop skills in grammar, punctuation, word usage, spelling, vocabulary and communications skills, such as giving speeches, using visual aids, and workplace communications. This course also focuses on strategies for reading comprehension, explains the writing process, helps students compose personal narratives and literary responses, and provides instruction on perspective and argument.	Canvas	1
Ninth Grade Literature and Composition	23.06100	This course addresses strategies for reading comprehension, recognition of text structure in exposition and narrative, comprehension of different genres of text, the steps for writing an essay and applying the five-step writing process. The course also addresses basic skills in grammar, punctuation, word usage, spelling, vocabulary, and research and explains how to punctuate and manipulate sentences to produce more effective writing.	Canvas	1
American Literature and Composition	23.05100	In this course, students continue to develop skills in grammar, punctuation, word usage, spelling, vocabulary, and communication. This course also teaches students about complex writing processes, types of writing, reading strategies, study skills, and modes of reasoning. Additionally, students read works from different periods of American literature and examine these texts to learn about various literary devices, forms, styles, techniques, and influences. This course requires an EOC ASSESSMENT.	Canvas	1

Course Name	State Course Number	Course Description	Delivery	Credits
British Literature and Composition	23.05200	In this course students continue to develop skills in grammar, punctuation, word usage, spelling, vocabulary, and communication. This course also teaches students about complex writing processes, types of writing, reading strategies, study skills, and modes of reasoning. Additionally, students read works from different periods of British literature and examine these texts to learn about various literary devices, forms, styles, techniques, and influences.	Canvas	1
Reading Strategies	23.08300	This course is a prerequisite for ELA as determined by a reading screener. It addresses potential gaps in literacy in multiple ways. The course provides strategies for word recognition and decoding. While employing Canvas course excerpts from English Language Arts, Science, Math, and Social Studies, strategies are provided to aid with fluency, vocabulary, and comprehension. The course will better prepare students for future reading and make them more confident readers.	Canvas	0.5
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Math

(All Math courses not used to fulfill core requirements count as academic electives.)

Course Name	Course Number	Course Description	Delivery	Credits
GSE Foundations of Algebra	27.04810	Foundations of Algebra is a course option for students who have completed mathematics in grades 6 – 8 yet will need substantial support to bolster success in high school mathematics. The course is aimed at students who have reported low standardized test performance in prior grades and/or have demonstrated significant difficulties in previous mathematics classes.	Canvas	1
Algebra SUPPORT for Algebra: Concepts and Connections	27.08120	Algebra Support for Algebra: Concepts and Connections is an elective designed to reinforce Algebraic concepts and to provide additional support to students in their effort to meet the standards of Algebra I.	Contact Regional Director	.5 or 1
Algebra: Concepts and Connections	27.08110	Algebra: Concepts and Connections is the first course in a sequence of three high school courses designed to ensure career and college readiness. Students will apply their algebraic and geometric reasoning skills to make sense of problems involving algebra, geometry, bivariate data, and statistics. This course focuses on algebraic, quantitative, geometric, graphical, and statistical reasoning. In this course, students will continue to enhance their algebraic reasoning skills when analyzing and applying a deep understanding of linear functions, sums and products of rational and irrational numbers, systems of linear inequalities, distance, midpoint, slope, area, perimeter, nonlinear equations and functions, quadratic expressions, equations and functions, exponential expressions, equations, and functions, and statistical reasoning. This course requires an EOC ASSESSMENT	Canvas	1

Course Name	Course Number	Course Description	Delivery	Credits
Geometry SUPPORT for Geometry: Concepts and Connections	27.08220	Geometry Support for Geometry: Concepts and Connections is an elective designed to reinforce geometric concepts and to provide additional support to students in their effort to meet the standards of Geometry.	Contact Regional Director	.5 or 1
Geometry: Concepts and Connections	27.08210	Geometry: Concepts and Connections is the second course in a sequence of three high school courses designed to ensure career and college readiness. This course is intended to enhance students' geometric, algebraic, graphical, and probabilistic reasoning skills. Students will apply their algebraic and geometric reasoning skills to make sense of problems involving geometry, trigonometry, algebra, probability, and statistics. Students will continue to enhance their analytical geometry and reasoning skills when analyzing and applying a deep understanding of polynomial expressions, proofs, constructions, rigid motions and transformations, similarity, congruence, circles, right triangle trigonometry, geometric measurement, and conditional probability.	Canvas	1
Advanced Algebra: Concepts and Connections	27.08310	Advanced Algebra: Concepts and Connections is the third course in a sequence of courses designed to ensure career and college readiness. It is intended to prepare students for fourth mathematics course options relevant to their postsecondary pursuits. High school course content standards are listed by big idea, including Data and Statistical Reasoning, Probabilistic Reasoning, Functional and Graphical Reasoning, Patterning and Algebraic Reasoning, and Geometric and Spatial Reasoning.	Canvas	1
Pre-Calculus	27.08410	Pre-Calculus is a fourth-year mathematics course option for students who have completed Advanced Algebra: Concepts and Connections (or the equivalent). The course is intended to provide students with opportunities to develop a deeper understanding of Algebraic concepts that are critical to the study of Calculus. Students will also deepen their understanding of trigonometry and its applications. This course meets the HOPE Rigor requirement.	Canvas	1

Course Name	Course Number	Course Description	Delivery	Credits
Statistical Reasoning	27.08800	Statistical Reasoning is a fourth mathematics course option. Students will formulate statistical questions to be answered using data, will design and implement a plan to collect the appropriate data, will select appropriate graphical and numerical methods for data analysis, and will interpret their results to make connections with the initial question. This course meets the HOPE Rigor requirement.	Canvas	1
Advanced Financial Algebra	27.08400	Advanced Financial Algebra is a fourth-year mathematics course designed for students who have successfully completed Advanced Algebra. Students will create, apply, and interpret a wide variety of algebraic function-models to aid in real-world decision making. Statistical research and analysis will be utilized to determine the efficacy of model applications and further assist in exploring scenarios with financial implications.	Canvas	1
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Science

(All Science courses not used to fulfill core requirements count as academic electives.)

Course Name	Course Number	Course Description	Delivery	Credits
Biology	26.01200	This course addresses key concepts and processes from chemistry, cells, cellular respiration, photosynthesis, genetics, and DNA. The scientific method and foundational chemistry facts are presented to assist students in the study of biology. This course also addresses key concepts and processes of evolution, classification, ecology, and human anatomy. An overview of human body systems, as well as, defining structures of bacteria, protists, fungi, plants, and animals are also explored. This course requires an EOC ASSESSMENT.	Canvas	1
Environmental Science	26.06110	This course presents relationships between organisms and how these relationships relate to the functioning of ecosystems. Students learn the key concepts and processes of nutrient cycling, biomes, pollution, energy resources, and habitat destruction. The course also covers ways to promote biodiversity and create a sustainable future.	Canvas	1
Human Anatomy / Physiology	26.07300	Students learn about anatomical structures and physiology of the human body. Body systems are discussed in terms of how each participates in homeostasis of the body. Students learn about selected major pathologies, including causes, symptoms, diagnostic procedures, and treatments, as well as common changes that occur through the life span. This course meets the HOPE Rigor requirement.	Canvas	1

Course Name	Course Number	Course Description	Delivery	Credits
Chemistry	40.05100	This course addresses key concepts and processes from states of matter, atomic theory, organization of the periodic table, types of chemical bonds and reactions, the naming and formulas of chemicals, chemical reactions, and stoichiometry. The field of chemistry in relation to the scientific method is also explained. This course also addresses properties of solids, liquids, and gases, state changes, solutions, flow of energy, enthalpy, heat, entropy and free energy, rates of reactions, equilibrium, acid-base theories, oxidation and reduction, electromagnetic cells, functional groups, polymerization, biochemicals, and nuclear chemistry. The course explores concepts through lessons and lab videos. This course meets the HOPE Rigor requirement.	Canvas	1
Earth Systems	40.06400	This course addresses major concepts such as the materials which compose Earth, the rock cycle and types of rocks, Earth's resources, formation and movement of soil, glaciers, deserts, and alluvial landscapes, earthquakes, volcanoes, plate tectonics, mountain building, and geologic time. This course also covers concepts such as the ocean floor, seafloor sediments, waves, tides, and shoreline processes, characteristics of the atmosphere, precipitation, air pressure and wind, storms, climate, early astronomy, Earth-Moon-Sun interactions, and Solar System. Laboratory concepts appear in videos, careers in Earth Science are explored, and key scientists are called out through portraits and biographies.	Canvas	1
Physical Science	40.01100	This course addresses key chemistry concepts and processes from properties and states of matter, atomic structure, organization of the periodic table, types of chemical bonds and reactions, solutions, carbon chemistry, and nuclear chemistry. This course also addresses key physics concepts and processes from force and motion, work, power, machines, energy, optics, electricity, and magnetism. Concepts are explored through animations and videos and will assist students in advanced chemistry and physics courses. This course requires an EOC ASSESSMENT.	Canvas	1

Course Name	Course Number	Course Description	Delivery	Credits
Physics	40.08200	This course addresses concepts of mechanics, wave behavior, and thermodynamics, Newton's laws of motion, thermal properties of matter, and thermodynamic systems. This course also contains lessons on electricity, magnetism, optics, the interactions among electric charges, properties of electric and magnetic fields and forces, and the characteristics of electromagnetic waves. Some of the basic concepts of quantum physics are presented as well. An understanding of Algebra and Trigonometry is required. This course meets the HOPE Rigor requirement.	Canvas	1
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Social Studies

(All Social Studies courses not used to fulfill core requirements count as academic electives.)

Course Name	Course Number	Course Description	Delivery	Credits
American Government / Civics	45.05700	This course provides students with a background in the philosophy, functions, and structure of the United States government. Students examine the philosophical foundations of the United States government and how that philosophy developed. Students also examine the structure and function of the United States government and its relationship to states and citizens.	Canvas	1
World History	45.08300	This course provides students with a comprehensive, intensive study of major events and themes in world history. Students begin with a study of the earliest civilizations worldwide and continue to examine major developments and themes in all regions of the world. The course culminates in a study of change and continuity and globalization at the beginning of the 21st century.	Canvas	1
United States History	45.08100	This course provides students with a comprehensive, intensive study of major events and themes in United States history. Beginning with early European colonization, the course examines major events and themes throughout United States history. The course concludes with significant developments in the early 21st century. Pre-requisites: Successful completion of American Government / Civics and World History. This course requires an EOC ASSESSMENT.	Canvas	1
Personal Finance and Economics	45.06100	In addition to the fundamentals of economic decision-making, microeconomics, macroeconomics, and international economics, students will learn personal finance skills they can apply to their own futures – including managing and balancing budgets; understanding and building credit; protecting against identity theft and consumer protections; and understanding tax forms, student loan applications, and pay stubs. This course provides students with a foundation in the field of economics, with a specific focus on how students can apply that knowledge to their own personal finances.	Canvas	1

Sociology	45.03100	Students examine the sociological processes that underlie everyday life, focusing on globalization, cultural diversity, critical thinking, new technology, and the growing influence of mass media.	Canvas	1
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Foreign Language

(All Foreign Language courses not used to fulfill core requirements count as academic electives.)

Course Name	Course Number	Course Description	Delivery	Credits
Spanish I	60.07100	Students will learn basic Spanish grammar to help build their fluency and understanding. There are many opportunities to practice what they learn through interactive practice activities in the form of games, written practice, listening, and speaking exercises.	Canvas	1
Spanish II	60.07200	The purpose of this course is to strengthen Spanish listening, speaking, reading, and writing skills. Students will also experience the beauty and expressiveness of a language that is shared by different people and cultures throughout the world. Prerequisite: Spanish I	Canvas	1
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Health and PE

Course Name	Course Number	Course Description	Delivery	Credits
Personal Fitness	36.05100	Students will start by assessing their physical condition. They will keep a workout log to measure progress. In addition, they will have a great personal trainer (their teacher) who will help them set realistic goals.	Canvas	0.5
Health	17.01100	Students will acquire basic personal health concepts that help maintain healthy behaviors and prevent disease. High school students will demonstrate patterns of healthy behaviors to prevent or reduce the risk of injury and/or illness throughout their lifespan. Students will describe the interrelationships of emotional, physical, social, and intellectual health and how each aspect of health can be impacted by their surroundings. Students will evaluate established health behavior theories and models.	Canvas	0.5
NOTE: Three (3) units of transfer credit in JROTC from an accredited high school may be used to satisfy these requirements.				
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Study Skills

Course Name	Course Number	Course Description	Delivery	Credits
Study Skills	35.06100	The course assists students with learning styles, time management, reading strategies, note-taking skills, test-taking strategies, critical thinking skills, and concentration and memory.	Canvas	0.5
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CTAE

Course Name	Course Number	Course Description	Delivery	Credits
Introduction to Business and Technology	07.44130	<p>The intention of this course is to prepare students to be successful both personally and professionally in an information-based society. Students will not only understand the concepts, but apply their knowledge to situations and defend their actions/decisions/choices through the knowledge and skills acquired in this course.</p> <p>Employability skills are integrated into activities, tasks, and projects throughout the course standards to demonstrate the skills required by business and industry. Various forms of technologies will be highlighted to expose students to the emerging technologies impacting the business world. Professional communication skills and practices, problem-solving, ethical and legal issues, and the impact of effective presentation skills are taught in this course as a foundational knowledge to prepare students to be college and career ready. After mastery of the standards in this course, students should be prepared to earn an industry recognized credential: Microsoft Office Specialist for Word Core Certification.</p>	Canvas	1

Course Name	Course Number	Course Description	Delivery	Credits
Business and Technology	07.44100	<p>Business and Technology is designed to prepare students with the knowledge and skills to be an asset to the collaborative, global, and innovative business world of today and tomorrow. Mastery use of spreadsheets and the ability to apply leadership skills to make informed business decisions will be a highlight of this course for students. Publishing industry appropriate documents to model effective communication and leadership will be demonstrated through project based learning. Students will use spreadsheet and database software to manage data while analyzing, organizing, and sharing data through visually appealing presentation.</p> <p>Business and Technology is the second course in the Business and Technology pathway in the Business Management and Administration cluster. After mastery of the standards in this course, students should be prepared to earn an industry recognized credential: Microsoft Office Specialist for Excel Core Certification.</p> <p>Prerequisite: Introduction to Business and Technology</p>	Canvas	1
Business Communications	07.45100	<p>Business Communications is the third course in the Business and Technology pathway in the Business Management and Administration cluster. Students enrolled in this course should have successfully completed Introduction to Business and Technology and Business and Technology. After mastery of the standards in this course, students should be prepared to take the end of pathway assessment in this career area: Microsoft Office Specialist for PowerPoint Core Certification.</p>	Canvas	1

Course Name	Course Number	Course Description	Delivery	Credits
Financial Literacy	07.42600	This course is specifically designed for high school students to understand the importance of the financial world, including planning and managing money wisely. Areas of study taught through application in personal finance include sources of income, budgeting, banking, consumer credit, credit laws and rights, personal bankruptcy, insurance, spending, taxes, investment strategies, savings accounts, mutual funds and the stock market, buying a vehicle, and living independently. Financial Literacy places great emphasis on problem solving, reasoning, representing, connecting and communicating financial data.	Canvas	1
Work-Based Learning	Request from Regional CTAE Coordinator	This course is designed to build employability skills and to compliment a student's career goals. Students must be at least 16 years of age to participate. A training agreement with employer signature is required. Students may earn up to 3 credits for work-based learning.	Canvas	1

Foothills CTAE Pathways
Business and Technology
07.44130 Introduction to Business and Technology
07.44100 Business and Technology
07.45100 Business Communications
End of Pathway Assessment: MOS
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Recommended Course Sequencing

Math	Science	ELA	Social Studies
GSE Foundations of Algebra (based on screener)	Environmental Science	9 th Lit	Gov/Civics
Algebra: Concepts and Connections	Biology	10 th Lit	World History
Geometry: Concepts and Connections	Physical Science	American Lit	US History
Advanced Algebra: Concepts and Connections	Chemistry or Earth Systems	British Lit	Personal Finance and Economics
4 th Math			

Prerequisites

Science
Algebra: Concepts and Connections before Physical Science
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