



**FOOTHILLS**

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EDUCATION

CHARTER HIGH SCHOOL

# **Course Catalog**

## Contents

English.....	3
Math .....	5
Science.....	7
Social Studies .....	10
Foreign Language .....	12
Health and PE.....	13
Study Skills / Career Development.....	14
CTAE.....	15
Recommended Course Sequencing.....	18
Prerequisites .....	18

## 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 GradPoint CLOSED	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 GradPoint CLOSED	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. <b>This course requires an EOC ASSESSMENT.</b>	Canvas GradPoint CLOSED	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 GradPoint CLOSED	1
<a href="#">Back to Table of Contents</a>				

## Math

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

Course Name	Course Number	Course Description	Delivery	Credits
GSE Algebra I Support	27.09970	Algebra I Support is a required elective designed to reinforce Algebraic concepts and to provide additional support to students in their effort to meet the standards of Algebra I. One full unit of elective credit is earned for this course.	Canvas	1
GSE Algebra I	27.09900	Algebra I is the first course in a sequence of three required high school courses designed to ensure career and college readiness. The course represents a discrete study of algebra with correlated statistics applications. Pre-requisite: Successful completion of GSE Algebra I Support. <b>This course requires an EOC ASSESSMENT</b>	GradPoint	1
GSE Geometry	27.09910	Geometry is the second course in a sequence of three required high school courses designed to ensure career and college readiness. The course represents a discrete study of geometry with correlated statistics applications.	GradPoint	1
GSE Algebra II	27.09920	Algebra II is the culminating course in a sequence of three high school courses designed to ensure career and college readiness. It is designed to prepare students for fourth course options relevant to their career pursuits.	GradPoint	1
GSE Pre-Calculus	27.09740	Pre-Calculus is a fourth mathematics course designed to prepare students for calculus and other college level mathematics courses. This course meets the HOPE Rigor requirement.	Canvas GradPoint CLOSED	1

Course Name	Course Number	Course Description	Delivery	Credits
Mathematics of Finance	27.08700	Mathematics of Finance concentrates on the mathematics necessary to understand and make informed decisions related to personal finance. The mathematics in the course will be based on many topics in prior courses; however, the specific applications will extend the student's understanding of when and how to use these topics.	Canvas GradPoint CLOSED	1
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 GradPoint CLOSED	1
<a href="#">Back to Table of Contents</a>				

## 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. <b>This course requires an EOC ASSESSMENT.</b>	GradPoint	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 GradPoint CLOSED	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.	GradPoint (Anatomy & Physiology and Human Diseases)	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.	GradPoint	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.	GradPoint (Earth Science)	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. <b>This course requires an EOC ASSESSMENT.</b>	Canvas  GradPoint CLOSED	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 GradPoint CLOSED	1
<a href="#">Back to Table of Contents</a>				

## 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 GradPoint CLOSED	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 GradPoint CLOSED	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. <b>This course requires an EOC ASSESSMENT.</b>	Canvas GradPoint CLOSED	1
Economics	45.06100	This course provides students with a basic foundation in the field of economics. The course has five sections: fundamental concepts, microeconomics, macroeconomics, international economics, and personal finance. In each area, students are introduced to major concepts and themes concerning that aspect of economics.	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 GradPoint CLOSED	1
<a href="#">Back to Table of Contents</a>				

## 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 GradPoint CLOSED	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	GradPoint (Spanish II) & Discovery Learning	1
<a href="#">Back to Table of Contents</a>				

## 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.	GradPoint/ Teacher	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  GradPoint CLOSED	0.5
NOTE: Three (3) units of transfer credit in JROTC from an accredited high school may be used to satisfy these requirements.				
<a href="#">Back to Table of Contents</a>				

## Study Skills / Career Development

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.	Packet	0.5
Career Development	35.06700	Students create their own Graduation Plan; take the You Science Aptitude Assessment; form a Career Path Determination; and complete a Resume or Cover Letter. <b>This course is required for graduation.</b>	Canvas	0.5
<a href="#">Back to Table of Contents</a>				

## 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.	Dave Ramsey Program	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	
<b>Business and Technology</b>	
07.44130 Introduction to Business and Technology	
07.44100 Business and Technology	
07.45100 Business Communications	
End of Pathway Assessment: MOS	
<a href="#">Back to Table of Contents</a>	

## Recommended Course Sequencing

Math	Science	ELA	Social Studies
GSE Algebra I Support	4 <sup>th</sup> Science	9 <sup>th</sup> Lit	Gov/Civics
Algebra I	Physical Science	10 <sup>th</sup> Lit	World History
Geometry	Biology	American Lit	US History
Algebra II	Chemistry, Earth Systems, Environmental Science	British Lit	Economics
4 <sup>th</sup> Math			

## Prerequisites

Math	Science
<b>Algebra Support before Algebra I</b>	<b>Algebra I before Physical Science</b>
<a href="#">Back to Table of Contents</a>	