

Catoosa Online Academy

High School Course Descriptions

(Updated July, 2023)

Required Academic Course Options				
*Due to programming changes AP courses will not be available through COA in 2022-2023.				
Grade	English	Math	Science	Social Studies
9th	9th Lit/Comp Honors 9th Lit/Comp	Foundations of Algebra Algebra I Honors Algebra I	Environmental Science Honors Physical Science	World History Honors World History
10th	10th Lit/Comp Honors 10th Lit/Comp	Geometry Honors Geometry	Biology Honors Biology	American Govt. Honors American Govt.
11th	American Lit/Comp Honors American Lit/Comp	Algebra II Honors Algebra II	Physical Science Chemistry Honors Chemistry	U. S. History Honors U. S. History
12th	British Lit/Comp Honors British Lit/Comp	Pre-Calculus (CP and Honors) Honors Calculus Statistics Adv. Math Decision Making Adv. Financial Algebra College Readiness Math	4th science is required - see list below for options	Economics Honors Economics
Required Electives for Graduation				
9th	From Here to Career (32.4300030)		Health and PE (36.0580030)	

Academic Electives

Infinite Campus Course Title and Number	Department	Course Description	Edmentum Course Title
Creative Writing 23.0310030	English	Students learn how to unleash the core of your imagination to develop your own creative writing, while also exploring creative writing through foundational literary works.	Creative Writing: Unleash.. /Creative Writing
Journalism 23.0320030	English	Students develop strong writing, critical thinking, and research skills to perform interviews and write influential articles and blog posts.	Journalism 1a / 1b
Anatomy and Physiology (CP or Honors) 26.0730030	Science *4th Science	Students explore the anatomy, terminology and physiology of the main systems of the human body. In addition students will study the structure of cells and tissues within the body.	Anatomy and Physiology
Astronomy 40.0210030	Science *4th Science	Students explore the origin of the universe, the Milky Way, other galaxies and stars, including the concepts of modern astronomy and the methods used by astronomers to learn more about the universe.	Astronomy 1a / 1b
Chemistry (CP or Honors) 40.0510030	Science *4th Science or Core	Students are introduced to atoms and elements, chemical bonding, chemical reactions, quantitative chemistry, molecular-level forces, solutions, and energy and changes in matter.	Chemistry A / B
Earth Systems 40.0640030	Science *4th Science	Students study Earth and space systems and interactions, the history of the Earth, the Earth's systems, weather and climate, climate change, and human impacts on the Earth.	Earth and Space Science A / B
Forensic Science 40.0930030	Science *4th Science	Students explore the role of science and technology in forensics learning the specialized skills and techniques used during a crime scene investigation.	Forensics
Oceanography 40.0710030	Science *4th Science	Students begin to better understand the aquatic cycles, structures, and processes that generate and sustain life in the sea. Students will explore how organisms survive and thrive below the ocean's surface.	Marine Science
Physics (CP or Honors) 40.0810030	Science *4th Science or Core	Students are introduced to the motion, properties of matter, force, heat, vector, light, and sound. The course focuses more on explanation than calculation to prepare students for college physics.	Physics A/B

Academic Electives (continued)

Infinite Campus Course Title and Number	Department	Course Description	Edmentum Course Title
Personal Finance 45.0670030	Social Studies	Students learn key financial concepts around taxes, credit, and money management will provide both understanding and confidence as they begin to navigate their own route to future security.	Personal and Family Finance
Psychology 45.0150030	Social Studies	Students trace the development of personality and behavior from infancy through adulthood and learn about perception and consciousness and better understand the role of sensation.	Personal Psychology 1 / 2
Sociology 45.0310030	Social Studies	Students explore culture, group behavior, and societal institutions and how they affect human behavior. You'll learn how social beliefs form and how this shapes our lives.	Sociology 1 / 2
World Geography 45.0711030	Social Studies	Students increase their knowledge of the world in which they live and how its diverse geographies shape the international community.	World Geography A / B
World Language Electives			
Am. Sign Lang. 1 64.031 Am. Sign Lang. 2 64.032 Am. Sign Lang. 3 64.033	World Lang	Students learn vocabulary and sentences, so that they can communicate right away. Students also explore Deaf culture – social beliefs, traditions, history, values and communities.	American Sign Language
French 1 60.0110030 French 2 60.0120030	World Lang	Students will start with basic sentence structures and grammatical tools, and they will communicate by listening, speaking, reading, and writing in French as they internalize new vocabulary and grammar.	French
Spanish 1 61.0710030 Spanish 2 61.0720030 Spanish 3 61.0730030	World Lang	Students will start with basic sentence structures and grammatical tools, and they will communicate by listening, speaking, reading, and writing in Spanish as they internalize new vocabulary and grammar.	Spanish
German 1 61.0110030 German 2 61.0120030	World Lang	Students will start with basic sentence structures and grammatical tools, and they will communicate by listening, speaking, reading, and writing in German as they internalize new vocabulary and grammar.	German

Advanced Placement (AP) Courses

*Students are required to complete an additional form to register for a COA AP course.

Infinite Campus Course Title and Number	Department	Course Description	Edmentum Course Title
AP Language	English	AP English Language and Composition investigates rhetoric and its impact on culture through analysis of notable fiction and nonfiction texts, from pamphlets to speeches to personal essays.	AP Language
AP Literature	English	AP Literature is designed to teach learners to become skilled readers and writers through the study, analysis, and evaluation of literature.	AP Literature
AP US History	S. Studies	AP US History provides learners with the opportunity to think critically and to gain factual knowledge about US history. Students will learn to analyze and critique historical materials and historical interpretations.	AP US History
AP Microeconomics	S. Studies	AP Microeconomics studies the behavior of individuals and businesses as they exchange goods and services in the marketplace.	AP Microeconomics
AP Macroeconomics	S. Studies	AP Macroeconomics students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline.	AP Macroeconomics
AP Psychology	S. Studies	AP Psychology provides an overview of current psychological theories, examines the reasons for normal human reactions, how people learn and think, the process of human development and human aggression, altruism, intimacy, and self- reflection.	AP Psychology
AP Calculus AB	Math	AP Calculus focuses on the concepts of functions, limits, differentiation, integrations, and their applications. It will cover topics such as the definite and indefinite integral and their applications, inverse function, and techniques for integrating.	AP Calculus AB
AP Statistics	Math	AP Statistics gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They will learn to effectively design and analyze research studies by reviewing and evaluating real research examples.	AP Statistics

CTAE Pathways
Courses must be taken in the order listed

Infinite Campus Course Title and Number	Department	Course Description	Edmentum Course Title
CTAE PATHWAY: Law Enforcement Services/ Forensic Science			
Intro to Law 43.4500030	CTAE	Students focus on building a safe and healthy world, ways for people to work together to ensure safety and provide indispensable service, and will be introduced to the field's many different career choices.	Principles of Public Service
Criminal Justice 43.4510030	CTAE	Students study different career choices and how the juvenile justice system, the correctional system, and the trial process all work together to maintain social order.	Careers in Criminal Justice 1a / 1b
Forensic Science 43.4520030	CTAE	*4th Science Students learn the techniques and practices applied during a crime scene investigation and how clues and data are recorded and preserved. **EOPA assessment at the base school is required with this course.	Forensic Science 1 / 2
CTAE PATHWAY: Programming			
Intro to Software Tech 11.4466030	CTAE	Students discover the fundamentals of computer science, review hardware and software, learn how the internet functions, how to build a website, and become familiar with programming languages.	Coding 1a
Computer Science 11.4710030	CTAE	*4th Science Students examine software engineering concepts, learn more about security, privacy, and ethics in technology, and learn the difference between web development and web application development.	Coding 1b
Programming, Gaming, and Apps 11.4720030	CTAE	Students focus on computer hardware and networking, including concepts related to virtualization and cloud computing. Students will learn about mobile devices **EOPA assessment at the base school is required with this course.	COMP TIA A+ 220-1001

CTAE Pathways
Courses must be taken in the order listed

Infinite Campus Course Title and Number	Department	Course Description	Edmentum Course Title
CTAE PATHWAY: Entrepreneurship			
Intro to Business Tech 07.4413030	CTAE	Students investigate computer hardware and software while exploring programs and applications, the history of the internet and how to use its capabilities even more effectively.	Computing for College and Careers 1a
Legal Environment of Business 06.4150030	CTAE	Students explore topics such as identifying the best business structure, business functions and operations, finance, business laws, and regulations.	Entrepreneurship 1a
Entrepreneurship 06.4161030	CTAE	Students explore topics representing the major parts of a business plan, such as risk, hiring, pricing, marketing, and more. Students will create a viable document to help start a business. **EOPA assessment at the base school is required with this course.	Entrepreneurship 1b
CTAE Pathway: Healthcare Science			
3rd Course in this Pathway may be taken at the base school			
Intro to Health Science 25.5210030	CTAE	Students are introduced to health science disciplines as toxicology, clinical medicine, and biotechnology and learn the value of diagnostics and research in the treatment of many diseases.	Health Science 1
Essentials of Healthcare 25.4400030	CTAE	*4th Science Students develop an understanding of the human body, physical and nutritional needs, mental health needs and teach them to provide culturally competent and quality care.	Anatomy & Phys, w/ units from Nurse Aide course

CTAE Pathways (continued)
Courses must be taken in the order listed

Infinite Campus Course Title and Number	Department	Course Description	Edmentum Course Title
CTAE Pathway: Agriculture, Food, and Natural Resources 3rd Course in this Pathway may be taken at the base school			
Basic Agriculture 02.4710030	CTAE	Students gain a sense of how food ends up on the plate and how we can maximize the foods and natural resources including agriculture's history, animal husbandry, plant science, and natural resources,	Principles of Ag, Food, and Natural Resources
Animal Science 02.4210030	CTAE	*4th Science Students learn how to care for domestic, farm, and wild animals and diagnose their common diseases and ailments.	Veterinary science
CTAE CLUSTER: Early Childhood Education 3rd Course in this Pathway may be taken at the base school			
Early Childhood Ed I 20.5281030	CTAE	Students examine the various life stages of child development and the best educational practices to enrich their minds while thinking about a possible future as a childcare provider.	Early Childhood Ed 1a
Early Childhood Ed II 20.4240030	CTAE	Students learn the importance of play and use it to build engaging educational activities that build literacy and math skills through each stage of childhood and special needs.	Early Childhood Ed 1b
CTAE CLUSTER: Culinary Arts LFO students may take the 3rd Course in this Pathway at LFO			
Intro to Culinary Arts I 20.5310030	CTAE	Students will learn about the history of food culture, food service, and global cuisines while learning about food science principles and preservation.	Culinary Arts 1a / 1b
Culinary Arts 1 20.5321030	CTAE	Students will explore baking and desserts, learn how to prepare proteins, and study nutrition and safety in the kitchen.	Culinary Arts 2

General Electives

Infinite Campus Course Title and Number	Department	Course Description	Edmentum Course Title
Art Appreciation 50.0911030	Humanities	Students learn about some of the greatest artists in the world while creating their own art, both on paper and digitally.	Art in World Cultures
Music Appreciation 53.014030	Humanities	Students learn a historical perspective while also learning the essentials of how to listen and really hear (with a knowledgeable ear).	Music Appreciation
ACT/SAT Prep 35.0660030	Elective	Students will choose to focus on ACT or SAT content to prepare for the college entrance exam.	ACT or SAT subject studies
College and Career Prep 35.0670030	Elective	Students build a well-rounded set of employability and personal leadership skills, learn how to communicate with others, take initiative, set goals, problem-solve, and research career options.	Life Skills: Adulthood and Workplace
General PE I 36.0110030	PE	Students participate in pre and post fitness assessments based on the five components of physical fitness.	Fitness Fundamentals I
General PE II 36.0120030	PE	Students discover new interests as they experiment with a variety of exercises in a non-competitive atmosphere.	Fitness Fundamentals II
General PE III 36.0130030	PE	Students learn how to exercise efficiently and properly, while participating in physical activities.	Advanced PE I
General PE IV 36.0140030	PE	Students apply what they learn by participating in a more challenging exercise requirement.	Advanced PE II
Theater Arts 52.0210030	Humanities	Students explore the world of live theater and its fascinating relationship to the silver screen; how to develop the script for stage and film; and to bring the script to life with acting and directing.	Theater, Cinema, and Film Production 1a and 1b