

Colorado Early Colleges

Online Campus

Course Catalog | Fall 2026 - Spring 2027



ONLINE CAMPUS

Course Offerings | Fall 2026 - Spring 2027

The CEC Online Campus offers a variety of courses designed to meet our students' needs. Classes are offered online synchronously between the hours of 7:50am and 3:30pm MWF with asynchronous learning and tutoring offered TR. Courses are noted with credit hours and applicable school level appropriateness; however, middle school students may access high school level courses when readiness and preparedness are demonstrated.

All middle school classes are yearlong courses. High school classes are typically one semester in length.

Additionally, CEC Online Campus partners with Front Range Community College and Morgan Community College to offer online college courses. Student will have access to online college courses that align with their graduation ICAP goals and at the discretion of their academic and career advisor. You can view courses and degree pathways on these respective college's course catalogs found on their school websites.

CEC Online Campus will also offer a select number of direct instruction college courses taught by adjunct faculty hired through CEC. These courses will be reflected in the course catalog each year as they are available.

College-level courses (100-level and above) are approved on a case-by-case basis based on applicable placement scores, prerequisites, and demonstrated by a student's college readiness. Students should plan to speak with their advisors about these opportunities and course offerings. Please note, course availability will vary on a semester-by-semester basis.

ENGLISH

English Literature 6, 7, 8 (*Middle School*)
English Foundations (*High School*)
Literature & Analysis (*High School*)
Creative Writing (*Middle and High School*)
Modernist Literature (*High School*)
English Composition I (*College*)
English Composition II (*College*)

MATH

Math Foundations (*Middle and High School*)
Math Fundamentals (*Middle and High School*)
Pre-algebra (*Middle and High School*)
Algebra I (*Middle and High School*)
Geometry (*Middle and High School*)
Algebra II (*Middle and High School*)
Financial Literacy (*High School*)
Bridge to College Algebra (*High School*)

SCIENCE

Science 6, 7, 8 (*Middle School*)
Integrated STEM Lab (*Middle and High School*)
Earth Science (*High School*)
Physical Science (*High School*)
Biology A (*High School*)
Biology B (*High School*)
Chemistry (*High School*)
Physics (*High School*)
Astronomy (*High School*)
Human Anatomy & Physiology (*High School*)
Intro to Microbiology (*High School*)

WORLD LANGUAGES

Intro to Spanish (*Middle School*)
Spanish I (*High School*)
Spanish II (*High School*)
Spanish III (*High School*)
Conversational Spanish (*Middle and High School*)
Exploration of Spanish Speaking Countries (*Middle and High School*)

LIFE DIMENSIONS

Base Camp (*Middle and High School*)
College & Career Awareness (*High School*)
Financial Literacy (*Middle and High School*)
Life Skills (*High School*)
Digital Literacy (*Middle and High School*)
Test Prep (*High School*)
College 101: The Student Experience (*College*)

SOCIAL SCIENCE

Social Science 6, 7, 8 (*Middle School*)
Early World History (*High School*)
Geography (*High School*)
Mythology (*High School*)
US History 1 (*High School*)
US History 2 (*High School*)
Civics (*High School*)
Rome to Reformation (*High School*)
US History Since the Civil War (*College*)

CAREER & TECHNICAL ED CERTIFICATIONS

Certification Lab *(High School)*
Adobe Creative Cloud *(High School)*
IT Specialists *(High School)*
Microsoft Office *(High School)*
Quickbooks *(High School)*
Work-Based Learning *(High School)*

CAREER & TECHNICAL ED CERTIFICATIONS (CONT.)

Fundamentals of Business Concepts - ASK Institute *(High School)*
Fundamentals of Marketing Concepts - ASK Institute *(High School)*
Concepts of Entrepreneurship - ASK Institute *(High School)*

LIBERAL ARTS AND SCIENCES

American Dynasties *(High School)*
Astronomy *(High School)*
Baseball and the American Century *(High School)*
Fail Better *(Middle School and High School)*
Fantasy Literature *(High School)*
Food Science *(Middle and High School)*
Forensic Science *(Middle and High School)*
Horticulture *(Middle and High School)*
Intro to Film Theory *(Middle and High School)*
Intro to Film Practice *(Middle and High School)*
Philosophy *(High School)*

BUSINESS

Financial Literacy *(High School)*
Fundamentals of Business Concepts - ASK Institute *(High School)*
Fundamentals of Marketing Concepts - ASK Institute *(High School)*
Concepts of Entrepreneurship - ASK Institute *(High School)*

COMPUTER SCIENCE

Computer Programming I *(Middle and High School)*
Computer Programming II *(Middle and High School)*
Designing Games with Minecraft *(Middle School)*
Esports *(Middle and High School)*
Game Design Development *(High School)*

ART, MUSIC, AND WRITING

Creative Writing *(Middle and High School)*
Fantasy Literature *(High School)*
Music Makers Lab: I (Synthase) *(Middle and High School)*
Music Makers Lab: II/III (Synthase) *(Middle and High School)*
Operation Echo (Synthase) *(Middle and High School)*

AUDIO/VISUAL ARTS

Adobe Digital Art *(Middle and High School)*
Digital Photography *(Middle and High School)*
Esports *(Middle and High School)*
Music Makers Lab: I (Synthase) *(Middle and High School)*
Music Makers Lab: II (Synthase) *(Middle and High School)*
Operation Echo (Synthase) *(Middle and High School)*

ENGLISH

6th Grade English Literature

This course will explore the English language and literature. Content units will explore different genres, including nonfiction, mythology, novels, grammar, and poetry. The class will incorporate hands-on activities, reading strategies, writing opportunities, and group work to promote understanding and engage students.

7th Grade English Literature

Students will practice reading, writing, speaking, and listening. Students will read a variety of novels, short stories, poems, plays, and nonfiction texts and write fiction and research papers. Throughout the year, 7th graders will reflect on the theme of bravery and how those perceptions change with each text they will read.

8th Grade English Literature

This course seeks to promote and develop reading, writing, speaking, and listening. This class will emphasize learning how to think in new and creative ways, how to effectively communicate both spoken and written ideas, and how to gather relevant information from various text types. Students will pursue answering the question, "What does it mean to be human?"

English Foundations A & B

Description: This course focuses on developing a strong foundation in both reading- and writing-related skills in addition to academic skills such as organization and holding oneself accountable for quality and timely work. The focus will be on communicating in a clear, structured way, both verbally and through written work, as well as understanding communication from others. This communication will be practiced in many different modes focusing on the various ways reading, writing, listening, and speaking occur in our world.

Prerequisites: Placement based on NWEA MAP score, NextGen ACCUPLACER score, and/or teacher recommendation

Designation: College Prep **Credits:** 0.5

English Foundations

Description: This course provides an intensive introduction to college prep English work by establishing a foundation of skills needed for all reading and writing at CEC. Students will practice analytical reading skills in a variety of genres, including short stories, poems, novels, and nonfiction. Focus will be on close reading where students use specific passages from the text to develop and support their interpretations of literary works as well as recognize how texts function as a whole and the conventions of using communication in different settings. Students will focus on the devices used to achieve their own writing purposes and appeal to their audiences by composing various types of essays. Further, they will learn the conventions and expectations of the typical college essay.

Prerequisites: Placement based on NWEA MAP score, NextGen ACCUPLACER score, OR successful completion of Literature & Composition 060

Designation: College Prep **Credits:** 1.0

Literature & Analysis

Description: This course provides a comprehensive overview of all college prep English skill sets. Students will be challenged to analyze and evaluate texts at a more advanced level to prepare for college-level reading tasks and to articulate—in both speech and writing—interpretations of poems, short stories, novels, and plays. They will also practice writing skills, including a focus on the sentence level as well as making intentional decisions to compose various genres of writing effectively. Students will focus on conducting research and thinking critically about how to gather, process, and use information to become thoughtful, productive citizens in the modern world.

Prerequisites: NWEA MAP scores, NexGen ACCUPLACER score, and/or Foundational College Prep English

Designation: College Prep **Credits:** 1.0

Creative Writing

Description: Creative Writing is a year-long elective course for students who are interested in learning how to cultivate the habit, attitude, and responsibility of the creative writer. Students will learn how to create, develop, and refine original forms of descriptive and aesthetic writing. As they read and write, students will become familiar with a variety of genres, including short stories, poetry, and screenplays. Students will focus on developing their use of a variety of creative writing techniques to improve their craft.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 1.0

Modernist Literature

Description: This course provides a comprehensive overview of a specific movement in Literary history. With a focus on literature written during the modern period — 1900-1940s — this class will place a special emphasis on the development of critical reading skills and the relationship between a literary movement and an historical context. The first half of the semester will focus on *The Great Gatsby* by F. Scott Fitzgerald and the second half will include texts from a diverse selection of poetry and short stories. The main focus of this class will be on reading and discussion of these texts, and the students will have the opportunity to respond to the reading in a large variety of ways and assignments.

Prerequisites: None **Designation:** College Prep **Credits:** 1.0

Critical Study of the Novel

Description: This course provides a comprehensive overview of one or two novels by the same author. The focus for these novels will be on the classics. The main focus of this class will be on reading and discussion of these texts, and the students will have the opportunity to respond to the reading in a large variety of ways and assignments. Novel studies will include: *Jane Eyre*, *Pride and Prejudice*, *Emma*, *Great Expectations*, *Dracula*, *The Grapes of Wrath*, *Beloved*, *Anna Karenina*, and more.

Prerequisites: None **Designation:** College Prep **Credits:** 1.0

English Composition I

Description: This course emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress the analytical, evaluative, and persuasive/argumentative modes of writing.

Prerequisites: Accuplacer or other College Readiness Metrics **Designation:** College **Credits:** 3.0

English Composition II

Description: This course emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress the analytical, evaluative, and persuasive/argumentative modes of writing.

Prerequisites: Accuplacer or other College Readiness Metrics **Designation:** College **Credits:** 3.0

MATH

Math Foundations

Description: This course covers essential mathematical concepts, including operations with whole numbers, fractions, decimals, algebraic expressions, geometric shapes and measurements, data analysis, and basic probability. Students will develop critical thinking skills and a solid mathematical foundation through problem-solving exercises and real-world applications.

Prerequisites: Placement based on NWEA Maps scores and/or teacher recommendation

Designation: Middle School and College Prep **Credits:** 0.5

Math Fundamentals

Description: This course builds upon foundational concepts while introducing more advanced topics. Students will delve deeper into operations with rational numbers, expressions, equations, and inequalities. They will explore geometric concepts, including angles, area, volume, and transformations. Additionally, the course covers probability, statistics, and proportional relationships, preparing students for higher-level math courses.

Prerequisites: Placement based on NWEA Maps scores and/or teacher recommendation

Designation: Middle School and College Prep **Credits:** 0.5

Pre-Algebra

Description: This course includes vocabulary, properties, operations, applications of real numbers (i.e., fractions, decimals, signed numbers), and algebraic expressions. It also covers the solution of basic first-degree equations, associated word problems, graphing on a coordinate plane, and introduction of systems.

Prerequisites: Placement based on NextGen ACCUPLACER score and/or teacher recommendation

Designation: College Prep **Credits:** 0.5

Algebra I

Description: The course introduces the student to the basic structure of algebra through the use and application of real numbers, inequalities, factoring, polynomials, linear and quadratic equations, and graphs. Additionally, appropriate technology will be used to study and achieve the following:

- Enhance mathematical understanding and problem-solving skills.
- Represent linear and exponential relationships using graphs, tables, equations, and contexts.
- Manipulate expressions to solve problems by factoring, distributing, multiplying polynomials, and expanding exponential expressions.
- Analyze the slope of a line graphically, numerically, contextually, and algebraically.
- Solve equations and systems of equations using a variety of strategies.
- Represent arithmetic and geometric sequences.
- Investigate square root, cube root, absolute value, piecewise-defined, step, and simple inverse functions.
- Use function notation.
- Analyze two-variable data and explain the differences between association and causation and interpret correlation in context.
- Compare distributions of one-variable data.

Prerequisites: Pre-algebra 060 **Designation:** College Prep **Credits:** 1.0

Geometry

Description: This course covers the following skills:

- Perform geometric transformations (reflection, rotation, translation, dilation) and find symmetry.
- Determine relationships between figures (such as similarity and congruence) in terms of rigid motions and similarity transformations.
- Explain properties of plane figures.
- Execute proofs of geometric theorems and use coordinates to prove geometric theorems.
- Model with geometry and create geometric constructions (with compass and straightedge).
- Find measurements of plane figures (such as area, perimeter, and angle measure) and three-dimensional solids (such as volume and surface area).
- Apply theorems about circles, including arc lengths and areas of sectors.
- Utilize tools for analyzing and measuring right triangles, general triangles, and complex shapes (such as the Pythagorean Theorem, trigonometric ratios, and the Laws of Sines and Cosines).
- Use algebra to formulate and solve equations arising from geometric situations.
- Calculate probability (independence and conditional probability, compound events, expected value, and permutations and combinations).

Prerequisites: Algebra I 090 **Designation:** College Prep **Credits:** 1.0

Algebra II

Description: This course is designed to build on algebraic and geometric concepts. It develops advanced algebra skills such as systems of equations, advanced polynomials, imaginary and complex numbers, and quadratics. Students will also prepare for the study of trigonometric functions. Finally, course content includes the vocabulary, systems, relations and functions, rational expressions and equations, inequalities, radical and complex numbers, and quadratic equations.

Prerequisites: Algebra I 090; Geometry **Designation:** College Prep **Credits:** 1.0

Financial Literacy

Description: Students will understand and explore how values, culture, and economic forces affect personal financial priorities and goals. In addition, students in this course will study a wide-range of financial principles and ideas including rational decision-making processes and financial planning, the sources of income and lifetime earning power, models of saving and investment strategies, personal money management, budgeting, credit and its impact on personal finances, and the rights and responsibilities of buyers and sellers under consumer protection laws.

Prerequisites: None **Designation:** College Prep **Credits:** 1.0

Bridge to College Algebra

Description: Bridge to College Algebra is a post-Algebra II mathematics course designed for students who have successfully completed Algebra II but need additional preparation before enrolling in College Algebra or other college-level mathematics courses. The course strengthens advanced algebraic concepts including functions, equations, graphing, modeling, and problem-solving while developing the academic habits necessary for collegiate success. Emphasis is placed not only on the essential algebraic skills necessary to participate in a College Algebra course but also on study skills, organization, note-taking and independent learning strategies to help students build confidence and readiness for the rigor of college coursework.

Prerequisites: None **Designation:** College Prep **Credits:** 1.0

SCIENCE

6th Grade Earth and Space Science

This course will cover all Colorado state middle school earth systems standards, including natural resources, geology, weather, and space concepts. Students will investigate and evaluate the workings of our earth and its place in the universe and master the fundamentals of using basic scientific measurement tools, the metric system, and reading graphs to be prepared for future scientific explorations. Students will also apply 21st century skills in critical thinking and reasoning, innovation, collaboration, information literacy, and self-direction.

7th Grade Life Science

This course is largely based on the study of life sciences and will include the fundamentals of biology. Students will investigate, explore, and discover various ideas using the scientific method throughout the school year. The class will also incorporate hands-on activities, experiments, and group work. It will also include a focus on reading and writing for content and understanding.

8th Grade Physical Science

This course is largely based on physical science that will include the fundamentals of physics and chemistry. Students will investigate, explore, and discover various ideas using the scientific process throughout the year. The class will incorporate hands-on activities, experiments, and group work. It will also include a focus on reading and writing for content and understanding.

Integrated STEM Labs

The Integrated STEM Lab class is designed with a blended science approach to enhance lab skills and scientific thinking through hands-on activities. Lessons will have both a life science and a physical science component, including — but not limited to — activities, projects, experiments, and labs in genetics, kinetic and potential energies, waves, the basics of chemistry, and Newton's Laws. The course will culminate with the students creating their own capstone experiment, subjecting it to a rigorous evaluation process, and measuring final results.

Prerequisites: None **Designation:** College Prep **Credits:** 0.5

Earth Science

Description: The Earth Science curriculum builds upon the natural curiosity of students concerning the scientific world. The course will explore the systems of the earth, including its spheres and cycles. It will further look at the following:

- The history of the earth through the exploration of plate tectonics and the movement of the earth's crust.
- How the earth's surface was shaped by weathering and erosion.
- Examining the causes and effects of various natural disasters.

Earth Science affects us every day through our interaction with and dependency on air, weather, water, and even the ground upon which we stand. This course will further explore the processes that have formed the Earth, the stars, the elements, and the universe. Through labs, lessons, activities, and models, students will explore how earth's atmosphere (air), hydrosphere (water), and geosphere (land) all interact with each other and affect our everyday life.

Prerequisites: None **Designation:** College Prep **Credits:** 0.5

Physical Science

Description: Physical Science is the study of matter and energy and will offer introductory concepts in chemistry and physics. Students in this course will study the properties of matter, the periodic table, elements, mixtures, compounds, chemical reactions, and light. They will further demonstrate an understanding of the electromagnetic spectrum, including energy, heat, motion, Newton's laws, and momentum.

Prerequisites: None **Designation:** College Prep **Credits:** 1.0

Biology A

Description: During this course, students will practice cooperative inquiry and project-based learning in the study of molecular and cellular biology, including biochemistry, cell structure and functions, the metabolic process of respiration and photosynthesis, cellular reproduction, and the basic concepts of genetics. Laboratory experiences will encourage scientific thinking by following procedures and collecting and analyzing data.

Prerequisites: Pre-algebra 060 060; English Foundations **Designation:** College Prep **Credits:** 0.5

Biology B

Description: Biology, the study of living things, exposes students to a wide range of biological processes, including molecular and cell biology, heredity and genetics, ecology, evolution, and the diversity of life. The scientific method, the process of observing, hypothesizing, measuring, and gathering data followed by analyzing and interpreting said data, will be applied. Furthermore, students will explore the large-scale systems of biology, including ecology and evolution, by examining how these systems interact and how these processes shape our environment. During this course, students will practice cooperative inquiry and project-based learning within the study of environmental and evolutionary biology. Laboratory experiences will encourage scientific thinking by collecting and analyzing data.

Prerequisites: Biology A **Designation:** College Prep **Credits:** 0.5

Chemistry

Description: This course covers the fundamentals of chemistry, which includes understanding the basics of chemical theory and concepts, interpreting chemical symbols and language, and solving common chemical problems. Applications of chemistry to the everyday world are also explored. During this course, students will practice cooperative inquiry and self-guided learning in the study of matter, including matter and change, measurements, atomic theory, chemical bonding, nomenclature, and chemical reactions. These activities will include working in small groups at times to reinforce lecture material and other knowledge, utilizing various visual presentations and descriptions, and receiving direct instruction from the instructor. Laboratory experiences will encourage scientific thinking by following procedures, collecting and analyzing data, and writing lab reports.

Prerequisites: Algebra I 090 **Designation:** College Prep **Credits:** 1.0

Physics

Description: Students will examine the following topics: the basic principles of mechanics, electricity and magnetism, and wave motion. Coursework will involve laboratory activities, assignments and formal assessments that will require students to demonstrate problem-solving skills in the context of a scientific scenario. Additionally, this course will introduce students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Finally, additional topics will include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students will examine the life cycle of stars, the properties of planets, and the exploration of outer space.

Prerequisites: None **Designation:** College Prep **Credits:** 1.0

Human Anatomy & Physiology

Description: Human Anatomy and Physiology provides high school students with a comprehensive introduction to the structure and function of the human body. It will explore the body's major systems – including the skeletal, circulatory, nervous and reproductive systems among others –, how they work individually and together, and how they maintain homeostasis. Students will study the organs, tissues, cells, and systems that make up the body, while also gaining a deeper understanding of how anatomy and physiology influence health, wellness, and disease. Through hands-on activities, lab experiments, and interactive learning, students will develop the ability to identify and understand the roles of various structures and functions within the human body. By the end of the course, students will have a strong foundation in the science of human biology, preparing them for more advanced studies in health-related fields or careers in medicine, nursing, sports science, and more.

Prerequisites: Biology A & B **Designation:** College Prep **Credits:** 1.0

Intro to Microbiology with Lab

Description: This course will introduce students to the invisible world of microorganisms and their impact on human life, ecosystems, and global health. Through a blend of engaging instruction and interactive virtual labs, students explore the structure, function, and diversity of bacteria, viruses, fungi, and protists. Key topics include cell structure, microbial genetics, disease transmission, immunity, antibiotic resistance, and the role of microbes in biotechnology and the environment. Virtual lab simulations are a central component of the course, allowing students to safely conduct experiments such as culturing microbes, performing Gram stains, identifying unknown pathogens, and testing the effectiveness of antimicrobial treatments. These labs build practical scientific skills—like data analysis, experimental design, and lab safety—without the need for physical lab equipment. By the end of the course, students will have a deeper understanding of how microorganisms influence everyday life and will be equipped with critical thinking and problem-solving skills relevant to modern science and medicine. This course is ideal for students interested in biology, healthcare, or environmental science.

Prerequisites: Biology A & B **Designation:** College Prep **Credits:** 1.0

SOCIAL SCIENCE / HISTORY

6th Grade Social Studies: Western Hemisphere

This course fully aligns with the Colorado Academic Standards (CAS) for Social Studies as adopted by the Colorado Department of Education. Students study the geography, history, cultures, governments, and economies of the Western Hemisphere (North America, Latin America, Caribbean), building maps, completing source-analysis, and developing inquiry skills.

7th Grade Social Studies: Eastern Hemisphere Ancient World History

This course fully aligns with the Colorado Academic Standards (CAS) for Social Studies (CDE). Students examine ancient civilizations across the Eastern Hemisphere—Mesopotamia, Egypt, the Indus Valley, China, Greece, Rome, and others—connecting geography, belief systems, trade, and governance through primary and secondary sources.

8th Grade Social Studies: US History: The Revolutionary War to the Civil War

This course fully aligns with the Colorado Academic Standards (CAS) for Social Studies (CDE). Students investigate the American Revolution through the Civil War, including founding documents and constitutional principles, westward expansion, reform movements, slavery, sectionalism, and the causes and course of the war, with a strong emphasis on evidence-based historical thinking.

Geography

Description: Geography is the study of humans and how they adjust to their environment. This course will consist of developing basic geographic skills and analyzing a regional approach to the geography of the world. Additionally, this course will examine how climate and resources impact the movement and development of human societies. Students will study the regional geographical method by analyzing how interactions between humans and their environment have impacted the characteristics of major world regions. Students will also learn to use geographic tools and resources to analyze the Earth's human systems and physical features by further investigating deeper geographic issues and concerns.

Prerequisites: None **Designation:** College Prep **Credits:** 1.0

Early World History

Description: Students will understand the process of historical inquiry through the examination of primary and secondary sources related to various ancient and pre-modern civilizations, including Asian, African, European, and pre-contact Indigenous American cultural groups. One overarching outcome of the course includes the identification of continuity and change across time and place in the frameworks of trade, religion, gender, race, and technology. Within these continuities and changes, students will engage several historical events and eras that significantly altered, created, or evolved into modern philosophies of government, economics, and social organizations.

Prerequisites: None **Designation:** College Prep **Credits:** 0.5

US History 1: Indigenous Societies to Reconstruction

Description: This course will cover United States history from pre-contact Indigenous societies through the conclusion of the American Civil War using conventional primary source analysis. Key themes and areas of study include European expansion into the New World, the founding of the American Republic, Westward Expansion, Slavery, the Sectional Crisis, and the Civil War. Students are expected and encouraged to connect historical pre-Columbian and American experiences with the current social landscape of the United States.

Prerequisites: None **Designation:** College Prep **Credits:** 1.0

US History 2: Reconstruction to the Present

Description: This course will cover United States history from the post-Civil War Reconstruction Era through the present using Hollywood and independent films as the primary source media. Key themes and areas of study include post-Civil War America, Jim Crow, American Imperialism, the “Roaring 20s,” Suffrage, the Great Depression, World War I and II, The Civil Rights Movement, the Cold War, and the turn of the new century—including the Tech Revolution. Students will enrich their understanding of the American story by contextualizing and connecting these various historical trends through the concepts of memory and critical thinking.

Prerequisites: None **Designation:** College Prep **Credits:** 1.0

Civics

Description: Students will study the history of the civil government of the United States and of the state of Colorado. Topics will include the history and contents of the Constitution, the functions of the three branches of government, the structure of Colorado’s government, and certain key events in Colorado history. Students will also analyze and discuss current events at the national and local levels. Please note: All students who enroll into Civics will cover a unit on the Holocaust & Genocide. Students who transfer into CEC Online Campus having already completed a Civics course will take a standalone module course which covers the Holocaust & Genocide.

Prerequisites: English Foundations or higher recommended **Designation:** College Prep **Credits:** 1.0

Mythology

Description: This high school mythology course examines the myths that have shaped cultures worldwide, integrating the Colorado State Standards for a comprehensive educational framework. We delve into classical mythology, including the foundational tales of Greek and Roman gods, the epic narratives of Norse mythology, and the storied traditions of Egyptian, Japanese, British, Celtic, Native American, and Aztec cultures. Alongside key readings from Thomas Bulfinch's "The Age of Fable," our curriculum extends into modern mythology, featuring iconic works such as "Harry Potter," "Rings of Power," and "Dune." Students will analyze creation myths, heroic quests, and the significance of mythical creatures, all through the lens of the “Hero’s Journey”. This curriculum offers a deep dive into the enduring impact of mythology, from ancient stories to contemporary narratives, enriching our understanding of the universal themes that continue to influence our world.

Prerequisites: English Foundations or higher recommended **Designation:** College Prep **Credits:** 1.0

Rome to Reformation: 500-1500 AD

Description: This course will cover Medieval history from the fracturing of the Roman Empire to the early stages of the Protestant Reformation using conventional primary source analysis. Key themes and areas of study include the creation and social construction of Christendom, the creation and spreading influence of Islam, urbanization, and growth of the western economy. Geographic regions covered throughout the course include North Africa, Europe, Asia Minor, Eastern Europe/Slav descendent culture areas, and the Middle East. Students are expected and encouraged to connect historical medieval themes and systems with the growth of our modern world and modern social constructions.

Prerequisites: English Foundations or higher recommended **Designation:** College Prep **Credits:** 0.5

US History Since the Civil War

Description: Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category.

Prerequisites: English Foundations or higher plus Accuplacer **Designation:** College **Credits:** 3.0

WORLD LANGUAGES

Intro to Spanish

Description: This course will introduce students to Spanish and Latin American countries. Students will learn basic vocabulary, grammar, and about the diversity of Latin America. This course aims to build an appreciation for the Spanish language and of other cultures. Please note, this course is available to students in Grades 7 and 8.

Prerequisites: None **Designation:** Middle School **Credits:** 0.5

Spanish I

Description: Spanish I is a one-credit course that focuses on the development of students' communicative competence and their understanding of the cultural products, practices, and perspectives of the Spanish-speaking world. Students will communicate in real-life contexts where grammar and vocabulary are integrated according to various real-life/real-world situations. Through the language learning process, students will develop an understanding of the structure of their native language and the uniqueness of their own culture. Emphasis will be placed on the use of Spanish in the classroom as well as on the use of authentic materials to learn about the culture. Students in Spanish I will develop interpersonal, interpretive, and presentational language skills as they interact with the Spanish language. Students in Spanish I will focus on improving comprehension, comprehensibility, vocabulary usage, cultural awareness, communication strategies, and language control.

Prerequisites: None **Designation:** College Prep **Credits:** 1.0

Spanish II

Description: Spanish II is a one-credit course that focuses on the development of students' communicative competence and their understanding of the cultural products, practice, and perspectives of the Spanish-speaking world by building upon and expanding the core competencies developed in Spanish I. Students will enhance their Spanish language skills by: speaking and writing with other Spanish speakers; Reading, listening, and viewing as a receptive process in which deeper foreign language comprehension is developed; and, Speaking and writing that is focused on the organization and structure of thoughts and the awareness of their audience. Emphasis will be placed on the use of Spanish in the classroom as well as on the use of authentic materials to learn about the culture. An important component of Spanish II is the use of Spanish beyond the classroom in order to apply it in the real world.

Prerequisites: Spanish I **Designation:** College Prep **Credits:** 1.0

Spanish III

Description: Spanish III is an intermediate-level course and it builds upon foundations set in Spanish I and II, requiring learners to actively apply previously learned language skills. Students will learn new vocabulary, verb tenses, and grammatical concepts that will allow them to expand their language skills. **Prerequisites:** Spanish II

Designation: College Prep **Credits:** 1.0

Exploration of Spanish Speaking Countries

Description: This course will introduce students to the diversity of Latin America. Students will learn about the culture, traditions, holidays and geography of Spanish-speaking countries. This course aims to build an appreciation of other cultures and develop motivation for learning another language. Through guided asynchronous instruction and independent projects, students will undertake an in depth exploration of these countries and cultures.

Prerequisites: None **Designation:** Middle School and College Prep **Credits:** 0.5

Conversational Spanish

Description: This course will allow students to practice with their speaking and listening skills. Students will engage in basic conversations with their peers and will be able to do a basic introduction of themselves. This course aims to build an appreciation for and develop motivation for learning another language.

Prerequisites: None **Designation:** Middle School and College Prep **Credits:** 1.0

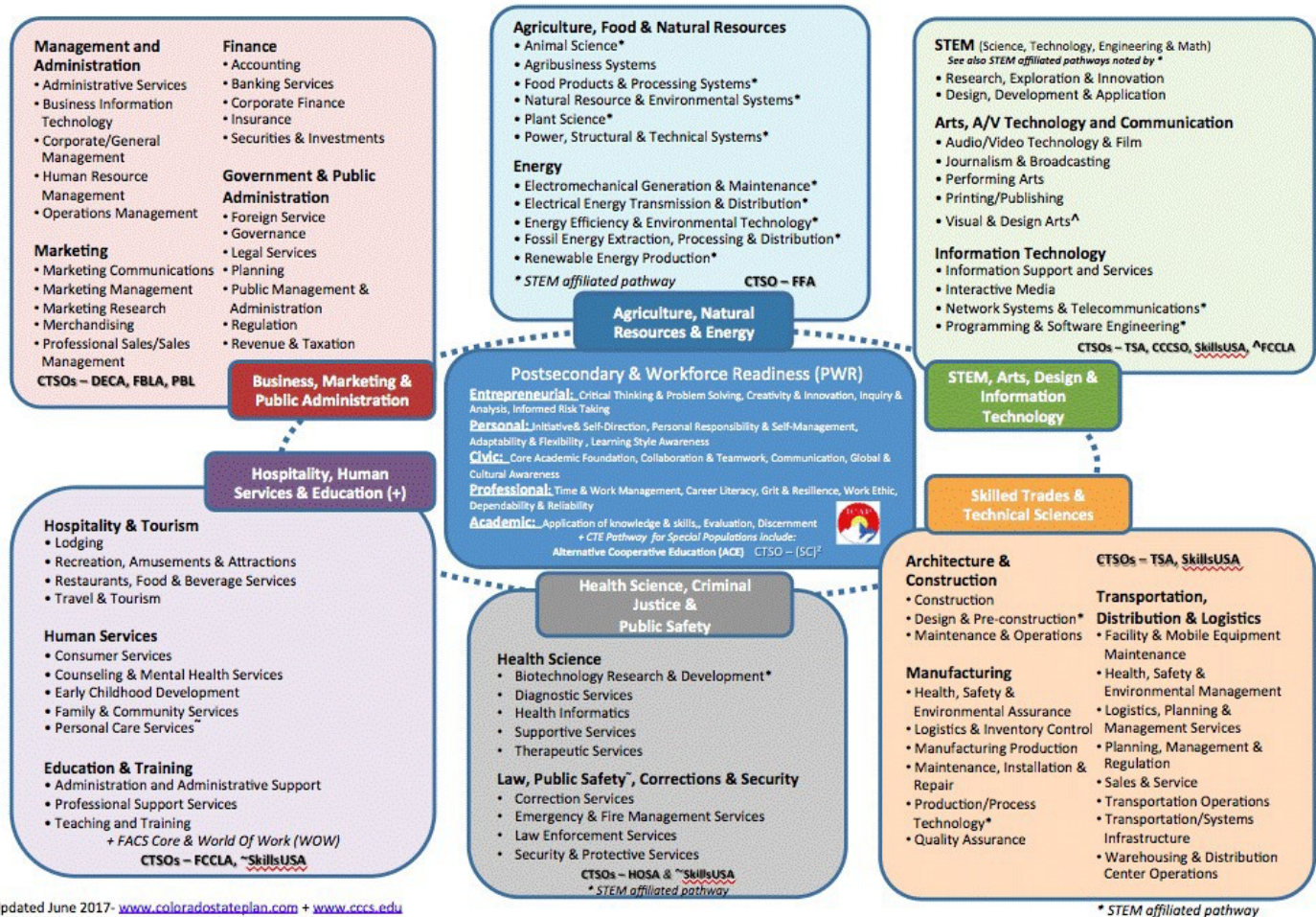
CAREER & TECHNICAL EDUCATION (CTE) PATHWAY OVERVIEW

What is a CTE Program?

Career and Technical Education (CTE) consists of programs that teach students specific career skills in middle school, high school, and post-secondary institutions. In Colorado, CTE is split into 17 career clusters that meet the criteria of being high-wage, high-skill, and high-demand careers. CEC's Online Program has CTE programs in STEM (Science, Technology, Engineering, and Math), Arts, Design & Information Technologies, Business, Performing Arts, and Health Sciences.



Colorado Career Cluster Model



Updated June 2017- www.coloradostateplan.com + www.cccs.edu

Structure of a CTE Program

Our CTE programs consist of a sequence of courses that are designed to teach students the skills they need to be successful academically and in the workplace within that specific career cluster. Our program begins with a class that focuses on career explorations, college and career awareness, and includes the opportunity to earn industry certifications. Most programs will include work-based learning experiences that expose students to the work in that field at an early age.

LIFE DIMENSIONS

Basecamp

Description: Basecamp is a required course for all CEC Online Program students. It is both the launching pad and the place to return over the course of a student's studies. Basecamp will provide a consistent touch point for students to engage with their teachers, advisors, and mentors. In Basecamp, students will develop essential skills to be successful in their learning, growth, and development. These skills will include self-regulated learning techniques, social and emotional learning strategies, the development of interpersonal relationships in the online/virtual environment, executive functioning skills, goal setting, and priority planning. Students in Basecamp will also be introduced to topics in Digital Literacy to enhance their experience navigating the online learning environment.

Prerequisites: None **Designation:** Essential Skills **Credit:** N/A

College & Career Awareness

Description: This course is an integrated, exploratory program focusing on self-knowledge, education, and career exploration. The purpose of this course is to allow students to be involved in activity-centered lessons that explore careers, utilize technology, and develop life skills in the following potential Colorado CTE career pathways: agriculture, business, health science, health technology, marketing, technology education, and family and consumer sciences.

Prerequisites: None **Designation:** College Prep and Essential Skills **Credit:** 1.0

Financial Literacy

Description: Students will understand and explore how values, culture, and economic forces affect personal financial priorities and goals. In addition, students in this course will study a wide-range of financial principles and ideas including rational decision-making processes and financial planning, the sources of income and lifetime earning power, models of saving and investment strategies, personal money management, budgeting, credit and its impact on personal finances, and the rights and responsibilities of buyers and sellers under consumer protection laws.

Prerequisites: None **Designation:** Middle School, College Prep and Essential Skills **Credits:** 1.0

Life Skills

Description: Have you ever asked the question, "When am I ever going to use this in life?!", this is the course for you! In this course, students will learn a number of useful skills for their everyday life. This course will cover Basic Needs, Self-Care, and Home Care. The purpose of this course is to equip students with a number of effective skills that are needed in day-to-day life, such as, checking fluid levels on automobiles, finding available jobs, shopping for groceries on a budget, patching drywall holes, becoming a self-starter, and how to cope with failure. This class is focused on Life Education.

Prerequisites: None **Designation:** College Prep and Essential Skills **Credits:** 1.0

Digital Literacy

Description: Digital Citizenship is a comprehensive elective course designed to equip students with the knowledge and skills needed to navigate the digital world safely, responsibly, and thoughtfully. Through real-world scenarios, interactive activities, and reflective discussions, students will explore how their online actions shape their identity, relationships, and future opportunities. This course empowers students to become informed digital consumers, ethical creators, and respectful participants in an increasingly connected world. Students will examine topics such as digital identity and footprint, online safety and privacy, digital etiquette, media literacy, responsible technology use, and emerging issues such as artificial intelligence. By the end of the course, students will be better prepared to make informed decisions, protect themselves online, and contribute positively to digital communities.

Prerequisites: None **Designation:** Essential Skills **Credit:** 0.5

Test Prep

Description: This elective course prepares students for success on a variety of aptitude, college readiness, and career certification exams. Students will develop test-taking strategies, strengthen critical reading, writing, and mathematics skills, and practice with assessments such as the SAT, ACT, ASVAB, Accuplacer, and industry certification exams. Emphasis is placed on problem-solving, time management, study skills, and building confidence in high-stakes testing environments while exploring career and postsecondary opportunities.

Prerequisites: None **Designation:** High School Only **Credit:** 0.5

College 101: The Student Experience

Description: This course introduces students to college culture and prepares them for the challenges they will face in higher education. Through a series of interactive seminars, students discover learning in a multicultural environment and use college and community resources to attain education and career goals.

Prerequisites: None **Designation:** Essential Skills and College Only **Credit:** 0.5

CAREER & TECHNICAL EDUCATION (CTE) COURSES

Certification Lab

Description: Certification Lab houses all of our career and technical readiness courses under one banner. Certification Lab provides high school students the chance to earn valuable, industry-recognized certifications that prepare them for college, career, and life after high school. Students can choose from professional, industry recognized credentials and certificates in Adobe Creative Cloud, Microsoft Office Specialist, IT Fundamentals, Entrepreneurship & Small Business, and QuickBooks. Employers and colleges recognize these certifications giving students a competitive edge as they plan their next steps. This course satisfies Colorado's Career Development Incentive Program (CDIP), which supports schools in offering high-value credentials and certificates that lead to post-secondary opportunities for students. By completing one or more of these industry recognized certifications, students demonstrate workplace readiness, technical skillsets, and problem-solving abilities. In Certification Lab, students will receive guided instruction and practice to prepare for certification exams, build a portfolio of technical and professional skills, gain hands-on experience with tools and software widely used in today's workplaces and learn how to connect certifications to career pathways in business, technology, design, and entrepreneurship. Certification Lab helps students graduate not just with a diploma, but with stackable credentials that open doors to entry-level job opportunities while pursuing further education or college programs where industry certifications strengthen applications. These career pathways all align with a student's Individual Career and Academic Plan (ICAP).

Prerequisites: None **Designation:** High School and College/Career Prep **Credit:** 0.5

Adobe Creative Cloud Certification

Description: The future belongs to those who create. Whether it's to inform, persuade, entertain, or inspire, success in the digital age means communicating in visually rich and interactive ways. With a firm grasp on the world's most powerful creative tools, Adobe Certified Professionals are ready to make their mark.

Adobe Certification Pathway: Adobe Certified Professional is the industry-recognized certification that demonstrates mastery of Adobe Creative Cloud software and must-have knowledge for digital media careers. Each exam is integrated with an Adobe application — including Photoshop, Illustrator, and Premiere — and, designed by experts, allowing for an authentic assessment of job-ready skills.

Prerequisites: None **Designation:** High School and College/Career Prep **Credit:** 0.5

IT Specialists Certification

Description: The Information Technology Specialist program is a way for students to validate foundational IT skills sought after by employers. The IT Specialist program is aimed at candidates who are considering or just beginning a path to a career in information technology. Students can certify their knowledge in a broad range of IT topics, including software development, database administration, networking and security, cybersecurity, mobility and device management, and coding.

IT Fundamentals: Certification Pathway: Through Certiport's full pathway solution you can prepare your students for the cloud computing workforce with tailored learning materials, practice tests, and certification exams. Adding these materials into your curriculum is easy and seamless.

Prerequisites: None **Designation:** High School and College/Career Prep **Credit:** 0.5

Microsoft Office Certification

Description: The Microsoft Office Specialist Program provides industry-leading assessments of skills and knowledge through our project-based testing, giving students and professionals real-world exercises to appraise their understanding of Microsoft Office, notably in the applications Word, Excel, PowerPoint, and Outlook. This guarantees that every certified user can prove they have the ability to command the full features and functionality of Microsoft Office, preparing them for future academic or workforce opportunities. In the US over 1.17 million jobs request Microsoft Office skills. With a MOS certification you can prove you have the skills to be more effective and productive as well as have a higher work quality.

Microsoft Academy Certification Pathway: Microsoft certification gives students and workforce candidates the power to chart their own course, fulfill their ambition, and realize their potential. See the statistics that validate that these certifications give you the tools to build a brighter future and prepare yourself for a successful career.

Prerequisites: None **Designation:** High School and College/Career Prep **Credit:** 0.5

QuickBooks Certification

Description: The Intuit QuickBooks Online Certified User (QBOCU) certification is an industry-recognized credential that validates one's skills in using the Intuit QuickBooks Online accounting software. It is designed for students who are learning to use and master the QuickBooks Online software as part of their accounting, finance, entrepreneurship or business class. The certification is proof they have acquired the knowledge and skills to effectively use the Intuit QuickBooks Online software within a business environment whether they choose to open their own business or work for an employer. The main concepts in the course will include: Intuit QuickBooks Online Administration; Sales and Money-In; Vendors and Money-Out; Bank Accounts, Transaction Rules, and Receipts; and, Basic Reports and Views.

Prerequisites: None **Designation:** High School and College/Career Prep **Credit:** 0.5

ASK Business Institute – Certification Lab: Fundamentals of Business Concepts

Description: The ASK Institute Business Certification Exams are industry leaders in ensuring students have the proper foundation in business principles and learning outcomes. The ASK Institute partners with MBA research as well as leaders in the public and private sector to create these exams that document a student's understanding of essential business skills and concepts. The certification in Fundamentals of Business Concepts focuses a students learning on the following core concepts: economic, operations, financial analysis, information management, customer relations, and strategic management.

Prerequisites: None **Designation:** High School and College/Career Prep **Credit:** 0.5

ASK Business Institute – Certification Lab: Fundamentals of Marketing Concepts

Description: The ASK Institute Business Certification Exams are industry leaders in ensuring students have the proper foundation in business principles and learning outcomes. The ASK Institute partners with MBA research as well as leaders in the public and private sector to create these exams that document a student's understanding of essential business skills and concepts. The certification in Fundamentals of Marketing Concepts focuses a student's learning on the following core concepts: marketing, product service management, promotions, market-information management, selling, and customer relations.

Prerequisites: None **Designation:** High School and College/Career Prep **Credit:** 0.5

ASK Business Institute – Certification Lab: Concepts of Entrepreneurship

Description: The ASK Institute Business Certification Exams are industry leaders in ensuring students have the proper foundation in business principles and learning outcomes. The ASK Institute partners with MBA research as well as leaders in the public and private sector to create these exams that document a student's understanding of essential business skills and concepts. The certification in Fundamentals of Business Concepts focuses a student's learning on the following core concepts: entrepreneurship, product service management, market planning, economics, strategic management, and financial analysis.

Prerequisites: None **Designation:** High School and College/Career Prep **Credit:** 0.5

Work-Based Learning

Description: This course provides juniors and seniors with the opportunity to earn high school credit through meaningful workplace experiences connected to their Individual Career and Academic Plan (ICAP) and postsecondary goals. Students may participate in a paid or unpaid job, internship, or apprenticeship in partnership with local businesses and community organizations. As part of Colorado's Career and Technical Education (CTE) framework, this course allows students to apply academic knowledge and technical skills in real-world settings while developing professional habits that prepare them for college, career, and life after graduation. With guidance from teachers and workplace mentors, students will set personal learning objectives, reflect on their progress, and document their growth toward future success. To be eligible, students must be in good academic standing, provide proof of employment or placement, and obtain approval from a school counselor or work-based learning coordinator. Credit will be variable and is awarded based on documented hours worked, completion of required reflections and evaluations, and demonstration of progress toward ICAP and career goals.

Prerequisites: None **Designation:** High School and College/Career Prep **Credit:** Variable

LIBERAL ARTS AND SCIENCES

American Dynasties

Description: The course will explore the idea of dynasties in American history by focusing on the Disney Brothers and the Kennedy Family. Students will examine the profound impact of the Disney Brothers and the Kennedy family on American culture, politics, and economy. Students will explore how these families built their respective empires, the challenges they faced, and their lasting legacies. The course will further explore America's development and will offer lessons on leadership, innovation, and public service through a unique blend of studies in history, economics, civics, and geography.

Prerequisites: None **Designation:** College Prep **Credit:** 0.5

Astronomy

Description: Astronomy is one of the oldest sciences practiced by humankind and focuses on the study of celestial bodies such as stars, planets, comets, and galaxies. Ancient Greeks used star positioning to navigate as well as to determine what crops to plant and when. In this course, students will study a myriad of topics pertaining to the science of Astronomy, including an overview of the introduction to this scientific practice, a guide to the galaxies, an overview of our solar system, and the basic elements of the stars.

Prerequisites: None **Designation:** College Prep **Credit:** 0.5

Baseball and the American Century

Description: Popular and historical trends since the American Civil War – entertainment, fashion, sport, celebrity – have come and gone, as they always will. Some have unexplainable staying power though, and baseball is one of them. “The one constant through all the years,” said the late, great, James Earl Jones (*The Field of Dreams*), “has been baseball. America has rolled by like an army of steamrollers. It’s been erased like a blackboard, rebuilt, and erased again. But baseball has marked the time . . . this game – it’s a part of our past.” This class will explore American history and culture since the Civil War through the lens of our very own, and unique, pastime.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

Fail Better

Description: Failure is not the opposite of success—it’s the foundation of growth. This elective helps students examine, experience, and reframe failure as a powerful learning tool. Through readings, media, real-life challenges, and guided reflection, students will learn to embrace productive struggle, develop resilience, and build lifelong habits of curiosity and courage. By the end of the course, students will be able to: Explain the five fundamental sides of failure; identify personal patterns related to fear, avoidance, resilience, and motivation; apply structured approaches to taking risks and learning from setbacks; complete real-world challenges and analyze outcomes; and, develop a personal “Failure Portfolio” documenting growth, insights, and next steps.

Prerequisites: None **Designation:** College Prep **Credit:** 0.5

Fantasy Literature

Description: This class will study Brandon Sanderson's epic fantasy novel, *The Way of Kings*. In this class we will analyze complex characters, epic fantasy world-building, and identify themes of leadership and morality by applying critical thinking skills to the reading.

Prerequisites: None **Designation:** College Prep **Credit:** 0.5

Food Science

Description: This introductory course explores the fundamental principles of food science, including food chemistry, microbiology, processing, and nutrition. Students will examine the science behind food production, safety, and quality, and gain insights into current issues such as food sustainability and innovations in food technology. Designed for both students of science and non-, the course combines recorded lectures, hands-on lab activities, and real-world case studies to provide a comprehensive understanding of the science that shapes the modern food system.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

Forensic Science I

Description: This engaging online course introduces students to the fundamentals of forensic science through real-world applications and investigative techniques. Students will develop critical observation and deductive reasoning skills while exploring topics such as eyewitness testimony, the Innocence Project, and the investigative process. They will learn how to analyze different types of evidence, document crime scenes through sketching and photography, and understand the importance of proper evidence collection and chain of custody. The course also examines the journey of forensic evidence from the crime scene to the courtroom and explores the history of forensic science. Through interactive lessons and case studies, students will gain a deeper understanding of how forensic science plays a crucial role in the justice system.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

Forensic Science II

Description: Please note: This course is only available to students who have passed Forensic Science I and due to mature content is only available to high school students. Forensic Science II builds upon the foundational skills and concepts introduced in Forensic Science I, offering students the opportunity to explore more advanced topics in evidence analysis and human investigation. Continuing with Items of Interest (Evidence), students will delve into the study of DNA profiling, blood evidence, ballistics, and arson investigation—learning how science helps uncover the truth behind violent crimes. The course then transitions into The Body as Evidence, examining toxicology, the stages of decomposition, death investigation, forensic entomology, and forensic anthropology. Students will analyze how experts use biological and chemical evidence to determine time and cause of death, culminating in a virtual autopsy experience. Throughout this course, students will continue to sharpen their analytical and critical-thinking skills, building confidence as forensic investigators. Step once again into the world of forensic science, where curiosity drives discovery and every piece of evidence has a story to tell.

Prerequisites: Forensic Science I **Designation:** College Prep **Credit:** 0.5

Horticulture: Ready, Set, Grow!

Description: In this course, green thumbs will meet creative minds! In this hands-on class, you'll dig deep into the fascinating world of plants, learning everything from soil science to sustainable gardening practices. Whether you're cultivating flowers, vegetables, or trees, you'll gain the skills needed to grow healthy, thriving plants while exploring the environmental impact of gardening. This class is all about making a difference – not just in your garden, but in the world around you. We'll cover the basics of plant biology, eco-friendly pest management, and innovative landscaping techniques, all while fostering a love for nature and sustainability. Plus, get ready to roll up your sleeves and put your learning into practice through exciting projects, like designing and maintaining a school garden and even experimenting with hydroponics. By the end of the course, you'll not only have a green thumb but also a deeper appreciation for how plants play a vital role in our ecosystem. Ready to plant the seeds for a future full of growth? Ready, Set, Grow!

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

Introduction to Film Theory

Description: Intro to Film Theory offers an engaging exploration of the key ideas and frameworks that shape our understanding of cinema. This course introduces students to foundational concepts such as auteur theory, genre analysis, spectatorship, and the politics of representation, examining how films create meaning and influence culture. Additionally, blending both cultural study and history, Intro to Film Theory will offer students a survey of the major developments and movements that have shaped moviemaking and the history of cinema for the last 145 years. Through screenings, readings, and discussions, students will develop critical tools to analyze film form, narrative structure, and visual style, gaining deeper insight into the artistic and social significance of cinema. Students who take Intro to Film Theory in the fall will be eligible to take Intro to Film Production in the spring with a chance to put theory into practice.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

Intro to Film Practice

Description: Intro to Film Practice will provide students the opportunity to explore the theoretical aspects of filmmaking through the hands-on experience of bringing their creative visions to life. Designed to complement Intro to Film Theory and only available to students who have passed that course, Intro to Film Practice will guide students through every stage of the production process — from scriptwriting and storyboarding to lighting, cinematography, and editing — through the opportunity of creating bare bones film projects. Students will plan, shoot, and edit their own short films while learning how visual and technical choices shape storytelling. By the end of the course, students will have developed both the creative and practical skills needed to craft short form cinematic stories. Please note, students must have access to some form of small camera or smart phone or device capable of recording video and have passed Intro to Film Theory.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

Philosophy

Description: This course provides students with an engaging and thought-provoking exploration of fundamental philosophical ideas. Students will analyze and discuss major philosophical themes, including logic, metaphysics, epistemology, ethics, political philosophy, the philosophy of religion, and existentialism. Through primary texts, critical discussions, and written reflections, students will develop strong analytical and reasoning skills, allowing them to question assumptions, construct logical arguments, and explore the relevance of philosophy in their daily lives. This course is ideal for students interested in deepening their understanding of human thought and inquiry.

Prerequisites: None **Designation:** College Prep **Credit:** 0.5

BUSINESS

Financial Literacy

Description: Students will understand and explore how values, culture, and economic forces affect personal financial priorities and goals. In addition, students in this course will study a wide range of financial principles and ideas including rational decision-making processes and financial planning, the sources of income and lifetime earning power, models of saving and investment strategies, personal money management, budgeting, credit and its impact on personal finances, and the rights and responsibilities of buyers and sellers under consumer protection laws. This course will teach the financial secrets of monetarily successful people. Students will learn the best practices of money management, how to make their money work for them, how to research possible investments and avoid risky ones, and will additionally learn some common pitfalls of credit cards. Finally, students will learn the best practices of money management to ensure a greater likelihood of financial success and independence in the future.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

Intro to Entrepreneurship

Description: In this introduction to the principles of entrepreneurship, students will learn the fundamental concepts of how to turn an idea into a successful business. Topics will include, writing a business plan, conducting market research, designing marketing and promotional plans, undertaking cost analysis plans and generating a financial analysis, and understanding the basics of networking.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

COMPUTER SCIENCES

Computer Programming I

Description: The vast digital world in which we live is constructed by coders. In this course, students will gain the knowledge necessary to understand programming vocabulary and concepts. Topics covered in the course will include the programming languages HTML, CSS, and JavaScript and complete coding exercises that apply these languages.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

Computer Programming II

Description: In this course, students will build upon the fundamentals that they established in Computer Programming I and elevate those skills to higher level of understanding and application with a particular focus on mastering the Python computer programming language. Topics of study will include functions and exceptions, strings, creating and altering and extending data structures, among other concepts.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

Esports

Description: In this course, students will practice the fundamentals of Esports. This introductory course provides students a digital framework through an Esports lens. Students will explore the history of Esports, practice good gamer mental and physical health, participate in journaling and reflection practices, and will practice active Esports skillsets with their teammates. The curricular content is a standards-based, peer-reviewed and peer-approved curriculum, which employs CTE, ISTE and STEM accredited resources.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

Game Design Development

Description: In this course, students will be introduced to the world of Game Design through hands-on projects in Unreal Engines. Students will build video games in 3D and create an online portfolio — all preparing for a career in Game Design. Units will include How to Build a Rube Goldberg Machine, How to Analyze Video Games, and How to Build Virtual Worlds among others.

Prerequisites: None **Designation:** College Prep **Credit:** 0.5

Designing Games with Minecraft

Description: Designing Games with Minecraft is a project-based middle school course that introduces students to the fundamentals of game design while exploring careers in the gaming and esports industries. Using Minecraft Education, students create their own interactive worlds, design game mechanics, and work in teams to build playable challenges. Throughout the course, students develop creativity, collaboration, communication, and problem-solving skills. The course concludes with students organizing and participating in a Minecraft tournament using the games they have designed.

Prerequisites: None **Designation:** College Prep **Credit:** 0.5

ART, MUSIC, AND WRITING

Creative Writing

Description: Creative Writing is a year-long elective course for students who are interested in learning how to cultivate the habit, attitude, and responsibility of the creative writer. Students will learn how to create, develop, and refine original forms of descriptive and aesthetic writing. As they read and write, students will become familiar with a variety of genres, including short stories, poetry, and screenplays. Students will focus on developing their use of a variety of creative writing techniques to improve their craft.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 1.0

Fantasy Literature

Description: This class will study Brandon Sanderson's epic fantasy novel, *The Way of Kings*. In this class we will analyze complex characters, epic fantasy world-building, and identify themes of leadership and morality by applying critical thinking skills to the reading.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

Music Makers Lab I (Synthase)

Description: This class is perfect for those who dream of making their own music but aren't sure where to start. You'll take songs apart and try to put them back together, and in the process learn tools and concepts that can help you make new songs of your own. By the end, you'll have original tracks to share with the world, plus an understanding of music technology that can help you get to the next level. This class is based in a Digital Audio Workstation and prior experience with music is not required.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 1.0

Music Makers Lab II (Synthase)

Description: When musical artists have the basic skills of working with a Digital Audio Workstation under their belt, they can focus on developing their craft and artistic voice by repeating the process of making and learning until their ability matches their taste. In our case, this will happen through the creation of an EP of highly original, highly polished tracks, which you will have the option to release on Soundcloud or Bandcamp. This requires independent, self-paced work and includes one-on-one meetings with the instructor as well as peer feedback sessions.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 1.0

Operation Echo (Synthase)

Description: Music-makers: What would you do if you could work together with your peers and a professional musician mentor, dream up something awesome, and build it together? Would you re-score a favorite movie? Send the Mars astronauts a personalized soundtrack? Try to collab with one of your musical heroes? Reach across the world for musical material, turn it into something awesome, and send it back? Here's your chance to propose, plan, research, and create something musical that you'll be talking about for years. Bring a collaborative spirit, some experience with a Digital Audio Workstation (such as Soundtrap or FL Studio), a computer, and your craziest ideas, and let's see what we can make happen.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 1.0

AUDIO/VISUAL ARTS

Adobe Digital Art & Graphic Design

Description: In this course, students will be introduced to the basic principles and elements of graphic design. They will learn how to use Adobe Photoshop and Illustrator to create and edit images, posters, logos, patterns, icons, and more.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

Digital Photography

Description: Digital Photography is a beginner-friendly course designed to help students explore the creative power of photography using something they already carry every day — their phone. No professional camera or prior experience is required; students simply need curiosity and a willingness to see the world differently. Throughout the course, students will learn foundational photography skills such as composition, filling the frame, texture, black-and-white photography, color, framing, lines, shapes, form, and light and shadow while also studying famous photographers and how they use these techniques to tell stories and capture emotion. Students will complete a short introduction to Photopea, a free web-based editing program, where they will learn basic photo editing skills including cropping, resizing, color adjustments, layers, and simple image corrections. By the end of the course, students will feel more confident using their phone camera creatively, understand key photography principles, and develop a small portfolio of images they are proud of while learning to see more beauty, creativity, and meaning in the world around them.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

Esports

Description: In this course, students will practice the fundamentals of Esports. This introductory course provides students a digital framework through an Esports lens. Students will explore the history of Esports, practice good gamer mental and physical health, participate in journaling and reflection practices, and will practice active Esports skillsets with their teammates. The curricular content is a standards-based, peer-reviewed and peer-approved curriculum, which employs CTE, ISTE and STEM accredited resources.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 0.5

Music Makers Lab I (Synthase)

Description: This class is perfect for those who dream of making their own music but aren't sure where to start. You'll take songs apart and try to put them back together, and in the process learn tools and concepts that can help you make new songs of your own. By the end, the student will have original tracks to share with the world, plus an understanding of music technology that can help you get to the next level. This class is based in a Digital Audio Workstation and prior experience with music is not required.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 1.0

Music Makers Lab II/III (Synthase)

Description: When musical artists have the basic skills of working with a Digital Audio Workstation under their belt, they can focus on developing their craft and artistic voice by repeating the process of making and learning until their ability matches their taste. In our case, this will happen through the creation of an EP of highly original, highly polished tracks, which you will have the option to release on Soundcloud or Bandcamp. This requires independent, self-paced work and includes one-on-one meetings with the instructor as well as peer feedback sessions.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 1.0

Operation Echo (Synthase)

Description: Music-makers: What would you do if you could work together with your peers and a professional musician mentor, dream up something awesome, and build it together? Would you re-score a favorite movie? Send the Mars astronauts a personalized soundtrack? Try to collab with one of your musical heroes? Reach across the world for musical material, turn it into something awesome, and send it back? Here's your chance to propose, plan, research, and create something musical that you'll be talking about for years. Bring a collaborative spirit, some experience with a Digital Audio Workstation (such as Soundtrap or FL Studio), a computer, and your craziest ideas, and let's see what we can make happen.

Prerequisites: None **Designation:** Middle School and College Prep **Credit:** 1.0