

CEC Castle Rock Master Course Catalog

Please note that this catalog provides a comprehensive list of courses that may have been offered previously, currently and/or potentially in future semesters. Please refer to the separate Spring 2023 Course Guide for the courses offered. High school (H.S.) courses are listed first, College Courses are 4-digit numbers beginning with a 1 or 2 and are listed alphabetically and numerically by course code. Typical high school courses meet Monday – Friday (M-F) and college courses typically meet 2 days per week.

ENGLISH

H.S. English Content Lab

Description: English content lab emphasizes building literature analysis and comprehension skills, along with writing skills. The learning objectives will be differentiated and focused on building competency in the learning objectives of English 090 and 099.

Prerequisites: *None*

Designation: *College Prep*

Credits: 0.25 high school

H.S. Fundamental English (ENG 060)

Description: Focuses on paragraph structure and development, along with introducing the formal essay. Enables the student to review and improve grammar, usage, and punctuation skills while employing critical thinking strategies and the writing process to respond to a wide variety of writing situations. Focuses on strategies for vocabulary development, improved reading comprehension, and enrichment.

Prerequisites: *None*

Designation: College Prep

Credits: 1 high school

H.S. Literature & Composition Foundations (ENG 090)

Description: Emphasizes critical thinking as students explore literature written for a variety of purposes and audiences. Enables the student to develop skills required for college-level reading while reviewing elements of literature and its historical context. Enables the student to apply strategies for improving comprehension, developing vocabulary, and increasing rate for reading comprehension.

Prerequisites: *Literature & Composition Foundations (ENG 060) or appropriate ACCUPLACER scores*

Designation: College Prep

Credits: 1 high school

H.S. Fiction Reading and Writing (ENG 095)

Description: The emphasis of English 095 will be reading fiction and writing. Building from what was learned in 090, students will delve deeper into fictional readings, with more of an emphasis on poetry and playwriting. It will enable the student to develop skills in college-level literary analysis and critical thinking, as well as college-level writing. Students will be able to proceed onto 099 with increasing reading comprehension and elevated vocabulary.

Prerequisites: *Literature & Composition College Prep (ENG 090) and/or appropriate ACCUPLACER scores*

Designation: College Prep

Credits: 1 high school

H.S. Non-Fiction Reading and Writing (ENG 099)

Description: The emphasis of English 099 will be reading nonfiction and writing. The writing will be more academic in that the objective is to synthesize the reading material and writing to advance critical thinking skills, enhance the student's ability to engage with sophisticated texts, and to find and infer connections among a variety of texts with various purposes and audiences. Students can expect to read several nonfiction texts and write five major papers in preparation for ENG 1021. It is highly recommended that students take this course to bridge the gap between high school courses and the demand of college-level work. English 099 provides students additional time to grow and achieve the academic prowess and acumen to be successful in ENG 1021.

Prerequisites: *Literature & Composition College Prep (ENG 090) and/or Fiction Reading and Writing (ENG 095) and/or appropriate ACCUPLACER scores*

Designation: College Prep

Credits: 1 high school

H.S. Creative Writing

Description: Examines techniques for creative writing by exploring imaginative uses of language through creative genres (fiction, poetry, and other types of creative production such as drama, screenplays, graphic narrative, or creative nonfiction) with emphasis on the student's unique style, subject matter, and needs.

Prerequisites: *None*

Designation: College Prep

Credits: 1 high school

H.S. Great Books

Description: Great Novels is a class where students explore multiple genres of literature and read various novels in order to enhance reading comprehension, critical thinking skills, and literary analysis. Students will read a total of three novels throughout the semester that share similar themes. They will also engage in deep analysis of various literary styles and elements and apply what they learn into their own lives.

Prerequisites: *None*

Designation: College Prep

Credits: 1 high school

English Composition I (ENG 1021 | GT-CO1)

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

Prerequisites: *English 099 and college ready English ACCUPLACER score (required).*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

English Composition II (ENG 1022 | GT-CO2)

Description: Expands and refines the objectives of English Composition I. Emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and argumentative compositions.

Prerequisites: *English Composition I (ENG 1021 or ENG 1031) and college ready English ACCUPLACER score*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Creative Writing (ENG 2021 | GT-AH1)

Description: Examines techniques for creative writing by exploring imaginative uses of language through creative genres (fiction, poetry, and other types of creative production such as drama, screenplays, graphic narrative, or creative nonfiction) with emphasis on the student's unique style, subject matter, and needs.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

MATH

H.S. Content Lab Algebra

Description: Develops and solidifies the foundation skills for Algebra I of includes first-degree equations, inequalities, formulas, polynomials, factoring polynomials, solving quadratic equations by factoring, graphing linear equations, and applications. Algebraic fractions and systems of linear equations may be included.

Prerequisites: *None*

Designation: College Prep

Credits: 0.25 high school

H.S. Content Lab Geometry

Description: Develops and solidifies the foundation skills for Geometry including, identifying various geometric figures, and proving theorems associated with them. Aiding in making conjectures and proving theorems.

Prerequisites: *None*

Designation: College Prep

Credits: 0.25 high school

H.S. Pre-Algebra (MAT 060)

Description: Explores the vocabulary, operations and applications of fractions, mixed numbers, ratios, proportions, percentages, measurements, integers, introduction to algebraic expressions, and the solution of basic first-degree equations.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Algebra I (MAT 090)

Description: Includes first-degree equations, inequalities, formulas, polynomials, factoring polynomials, solving quadratic equations by factoring, graphing linear equations, and applications. Algebraic fractions and systems of linear equations may be included.

Prerequisites: *Pre-Algebra (MAT 060) and/or placement via the ACCUPLACER.*

Designation: College Prep

Credits: 1 high school

H.S. Algebra I- A & B (MAT 090)

Description: Includes first-degree equations, inequalities, formulas, polynomials, factoring polynomials, solving quadratic equations by factoring, graphing linear equations, and applications. Algebraic fractions and systems of linear equations may be included. Algebra I-year-long course designed to learn concepts at moderate pace

Prerequisites: *Pre-Algebra (MAT 060) and/or placement via the ACCUPLACER.*

Designation: College Prep

Credits: 0.5 high school per semester

H.S. Algebra II for Liberal Arts Majors (MAT 095)

Description: This is a college-prep course in higher-level algebra and problem-solving skills that have been used in everyday life: in many careers and in advanced mathematics courses. This course is designed for students who have felt unsuccessful in math in the past, students who want to go on to higher-level math classes, and students who love the challenge of math. All are welcome! Math topics include polynomials, factoring, functions, exponential and logarithmic functions, and exponential and logarithmic applications.

Prerequisites: *MAT 090 and Geometry and/or appropriate ACCUPLACER score (Student is AA major)*

Designation: College Prep

Credits: 1 high school

H.S. Algebra II A & B (MAT 099)

Description: Emphasizes problem solving with further study of equations, slope, inequalities, systems of equations, polynomials, quadratic equations, rational expressions, rational exponents, radical expressions, graphing, and applications.

Prerequisites: *MAT 090 & Geometry and/or appropriate ACCUPLACER score*

Designation: College Prep

Credits: 0.5 high school per semester

H.S. Algebra II (MAT 099)

Description: Emphasizes problem solving with further study of equations, slope, inequalities, systems of equations, polynomials, quadratic equations, rational expressions, rational exponents, radical expressions, graphing, and applications.

Prerequisites: *MAT 090 & Geometry and/or appropriate ACCUPLACER score*

Designation: College Prep

Credits: 1 high school

H.S. Consumer Math

Description: This course is designed to meet the needs of students as they become independent consumers in our community. Students will use relationships between basic math skill principles and whole numbers, fractions, decimals, percentages, geometry, and algebraic reasoning to solve “real life” mathematical problems. The objective of the course is to prepare students for commerce in everyday life.

Prerequisites: *None*

Designation: College Prep

Credits: 1 high school

H.S. Geometry and Statistics

Description: Geo/Stats begins the exploration of math as an art; both from a visual perspective and an intellectual perspective. We will learn to identify various geometric figures and prove theorems associated with them. Principles of reasoning will be learned to aid in making conjectures and proving theorems. An important concept in Statistics is interpreting and extrapolating information from graphical representations of data. A large part of the course will introduce concepts by exploratory means, where the student will get a chance to create mathematics.

Prerequisites: *Algebra I (MAT 090) and/or appropriate ACCUPLACER score*

Designation: College Prep

Credits: 1 high school

Mathematics for Liberal Arts (MAT 1240 | GT-MA1)

Description: Develops mathematical and problem-solving skills. Appropriate technological skills are included. Content is selected to highlight connections between mathematics and the society in which we live. Topics include set theory and

logic, mathematical modeling, probability, and statistical methods, and consumer mathematics. Additional content will include one topic in geometry, numeration systems, decision theory, or management science.

Prerequisites: *MAT 095 and college ready math ACCUPLACER score*

Designation: Arapahoe Community College

Credits: 4 college credits / 1.5 high school

Introduction to Statistics (MAT 1260 | GT-MA1)

Description: Includes data presentation and summarization, introduction to probability concepts and distributions, statistical inference-estimation, hypothesis testing, comparison of populations, correlation, and regression.

Prerequisites: *College ready math ACCUPLACER score*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

College Algebra (MAT 1340 | GT-MA1)

Description: Includes a brief review of intermediate algebra, equations, and inequalities, functions and their graphs, exponential and logarithmic functions, linear and non-linear systems, selection of topics from among graphing of the conic sections, introduction to sequences and series permutations and combinations, the binomial theorem and theory of equations.

Prerequisites: *MAT 099 or college ready math ACCUPLACER score (required)*

Designation: Arapahoe Community College

Credits: 4 college credits / 1.5 high school

College Trigonometry (MAT 1420 | GT-MA1)

Description: Covers topics including trigonometric functions (with graphs and inverse functions), identities and equations, solutions of triangles, complex numbers, and other topics as time permits. This is a traditional prerequisite course to the calculus sequence.

Prerequisites: *College Algebra (MAT 1340) and college ready math ACCUPLACER score*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

College Pre-Calculus (MAT 1440 | GT-MA1)

Description: This course reviews college algebra and college trigonometry intended for those planning to take calculus. Topics include algebraic manipulations, properties of algebraic and trigonometric functions and their graphs, trig identities and equations, conic sections, polar coordinates and parametric equations. Note: This course was previously listed as MAT 166.

Prerequisites: *College Algebra (MAT 1340) and college ready math ACCUPLACER score*

Designation: Arapahoe Community College

Credits: 5 college credits / 2 high school

Calculus I (MAT 2410 | GT-MA1)

Description: Introduces single variable calculus and analytic geometry. Includes limits, continuity, derivatives, and applications of derivatives as well as indefinite and definite integrals and some applications.

Prerequisites: *Trigonometry or Pre-Calculus (MAT 1420 or MAT 1440) and college ready math ACCUPLACER score*

Designation: Arapahoe Community College

Credits: 5 college credits / 2 high school

SCIENCE

H.S. Anatomy & Physiology

Description: Focuses on basic knowledge of body structures and function and provides a foundation for understanding deviations from normal and disease conditions. This course is designed for individuals interested in health care and is part of our CTE Health Science pathway.

Prerequisites: *Introduction to Health Sciences (if on CTE Nurse Aide Health Pathway)*

Designation: College Prep

Credit: 1 high school

H.S. Biology w/Lab

Description: Focuses on macro systems such as ecosystems, interactions of populations within ecosystems, and the theory of evolution. Focuses on micro systems such as cellular metabolic activities, photosynthesis and cellular respiration, cells, tissues, organs, and organ systems, and genes.

Prerequisites: *Math 090/Algebra I (works as corequisite)*

Designation: College Prep

Credits: 1 high school

H.S. Chemistry w/Lab

Description: Students in this course will examine the fundamental properties of elements, compounds, and mixtures. Chemical reactions and chemical processes are observed and explained at the atomic and molecular level using the scientific method. Students will integrate conceptual understandings, algebra skills, and an ongoing laboratory experience to develop the fundamentals of problem solving, laboratory work, and the practical application of Chemistry.

Prerequisites: *Math 090/Algebra I (works as corequisite)*

Designation: College Prep

Credits: 1 high school

H.S. Earth Science with Lab

Description: The Earth Science curriculum builds on the natural curiosity of students. We begin by exploring the systems of the Earth – the spheres and the cycles. We then look at the history of the Earth by exploring Plate Tectonics and the movement of the Earth’s crust. We then look at how the Earth’s surface gets shaped by weathering and erosion before finishing up by looking at the causes and effects of various natural disasters.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Physics w/Lab

Description: This course encompasses core physics curriculum for continued advanced learning in scientific studies. Courses covered include forces, mechanics, energy, light and sound waves, optics, electricity, and magnetism. All covered topics will be both lecture and learning through lab manipulations. Students will work on various projects to encourage thorough understanding of learned material.

Prerequisites: *Algebra 2 (works as corequisite)*

Designation: College Prep

Credits: 1 high school

Planetary Astronomy w/Lab (AST 1110 | GT-SC1)

Description: Focuses on the history of astronomy, naked-eye sky observation, tools of the astronomer, contents of the solar system and life in the universe. Incorporates laboratory experience.

Prerequisites: *College Readiness in English and Quantitative Literacy Math*

Designation: Arapahoe Community College

Credits: 4 college credits / 1.5 high school

Astronomy of Ancient Cultures (AST 1140 | GT-SC2)

Description: Introduces the study of archeoastronomy and ethnoastronomy. Students will study the principles of naked eye astronomy and examine how those principles have been used for timekeeping, navigation, religion and ritual, political power, cosmology, and worldview. Methods of the ethnoastronomer will be covered, including measurement of alignments, analysis of written records, examination of art and architecture and incorporation of general knowledge about the culture being studied.

Prerequisites: *College Readiness in English and Quantitative Literacy Math*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Stellar Astronomy with Lab: (AST 1120 | GT-SC1)

Description: Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe, including cosmology and relativity. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT- SC1 category.

Prerequisites: *College Readiness in English and Quantitative Literacy Math*

Designation: Arapahoe Community College

Credits: 4 college credits / 1.5 high school

Science of Biology with Lab: (BIO 1005 | GT-SC1)

Description: Examines the basis of biology in the modern world and surveys the current knowledge and conceptual framework of the discipline. Biology as a science- process of gaining new knowledge-is explored as is the impact of biological science on society. This course includes laboratory experiences.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 4 college credits / 1.5 high school

General College Biology I with Lab (BIO 1111 | GT-SC1)

Description: Examines the fundamental molecular, cellular, and genetic principles characterizing plants and animals. Includes cell structure and function and the metabolic processes of respiration and photosynthesis, as well as cell reproduction and basic concepts of heredity. This course includes laboratory experience.

Prerequisites: **Completion** of *ENG 1021 and MAT 1340 with a grade "C" or better and HS Biology and HS Chemistry*

Designation: Arapahoe Community College

Credits: 5 college credits / 2 high school

General College Biology I with Lab (BIO 1112 | GT-SC1)

Description: A continuation of Biology I. Includes ecology, evolution, classification, structure and function in plants and animals. This course includes laboratory experience. Note: This course was previously listed as BIO 112

Prerequisites: *Completion of ENG 1021 and MAT 1340 with a grade "C" or better and HS Biology and HS Chemistry*

Designation: Arapahoe Community College

Credits: 5 college credits / 2 high school

Introduction to Human Disease (BIO 1016 | GT-SC1)

Description: Focused analysis of the causes and mechanics of human illness and death will be presented for each of the major human body systems. Selected diseases will be studied in greater detail including etiology, pathogenesis, epidemiology, sociology, and therapy.

Prerequisites: *HS Biology*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Introduction to Chemistry I with Lab: (CHE 1011 | GTSC1)

Description: Includes the study of measurements, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base, gas laws, and condensed states. Laboratory experiments demonstrate the above concepts qualitatively and quantitatively. Designed for non-science majors, students in occupational and health programs, or students with no chemistry background.

Prerequisites: *College Readiness in English and Quantitative Literacy Math and HS Biology and HS Chemistry. Upperclassmen only.*

Designation: Arapahoe Community College

Credits: 5 college credits / 2 high school

General College Chemistry I with lab (CHE 1111 | GT-SC1)

Description: Focuses on basic chemistry and measurement, matter, chemical formulas, reactions and equations, stoichiometry. This course covers the development of atomic theory culminating in the use of quantum numbers to determine electron configurations of atoms, and the relationship of electron configuration to chemical bond theory. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments.

Prerequisites: *HS Chemistry and/or Completion of CHE 1011, ENG 1021 and MAT 1340 with a grade "C"*

Designation: Arapahoe Community College

Credits: 5 college credits / 2 high school

General College Chemistry II (CHE 1112 | GT-SC1)

Description: Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Prerequisites: *Completion of CHE 1111 – C+, Accuplacer WR 246 + / Completion of ENG 1021, and MAT 1340 – C+ / Accuplacer AAF 245 +*

Designation: Arapahoe Community College

Credits: 5 college credits / 2 high school

Natural Disasters (ENV 1010 | GT-SC2)

Description: Introduces the student to the different types of natural hazards, their causes, effects, and what can be done to reduce the risks to human populations. Scientific advances related to understanding, predicting, and preparing for natural disasters are discussed. This course also covers anthropogenic changes to Earth systems which may be increasing the frequency and severity of these events. This is a statewide Guaranteed Transfer course in the GT-SC2 category.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Environmental Science w/Lab (ENV 1111 | GT-SC1)

Description: Introduces the basic concepts of ecology and the relationship between environmental problems and biological systems. This course includes interdisciplinary discussions on biology, chemistry, geology, energy, natural resources, pollution, and environmental protection. A holistic approach is used when analyzing how the foundations of natural sciences interconnect with the environment.

Prerequisites: *College Readiness in English and Quantitative Literacy Math*

Designation: Arapahoe Community College

Credits: 4 college credits / 1.5 high school

Physical Geology w/Lab (GEY 1111 -GT- SC1)

Description: Introduces the major topics of geology. Course content encompasses Earth's materials, structure, and surface landforms. Geologic time and the geologic processes responsible for Earth's internal and external features are covered. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Prerequisites: *College Readiness in English and Quantitative Literacy Math*

Designation: Arapahoe Community College

Credits: 4 college credits / 1.5 high school

Conceptual Physics & Lab (PHY 1105 | GT-SC1)

Description: Focuses on mechanics, heat, properties of matter, electricity and magnetism, light and modern physics. Incorporates laboratory experience.

Prerequisites: *College Readiness in English and Quantitative Literacy Math*

Designation: Arapahoe Community College

Credits: 4 college credits / 1.5 high school

COMMUNICATIONS

Public Speaking (COM 1150 | Not GT)

Description: Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Interpersonal Communication (COM 1250 | GT-SS3)

Description: Examines the communication involved in interpersonal relationships occurring in family, social, and career situations. Relevant concepts include self-concept, perception, listening, nonverbal communication, and conflict.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Intercultural Communication (COM 2300 | GT-SS3)

Description: Provides a global view of communication across cultures and brings an awareness of how perception, language, race, verbal, and nonverbal communication impact our behaviors, messages, and interactions. Emphasis is on developing effective and ethical cross-cultural communication skills, while also building an appreciation for different cultures. This is a statewide Guaranteed Transfer course in the GT-SS3 category.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

COLLEGE AND CAREER READINESS

H.S. Senior Capstone Project

Description: The Senior Capstone course is designed to promote independent and autonomous learning through critical inquiry into a profession, academic interest, social issue, or service opportunity. Students will be asked to select a topic, discipline, or social problem that interests them, conduct research on the subject, create a final product demonstrating their learning acquisition or conclusions (a paper, short film, or multimedia presentation, for example), and give an oral presentation on the project to a panel of teachers, experts, and community members who collectively evaluate its quality. This course will also encourage students to connect their projects to community issues or problems and integrate outside-of-school learning experiences, including interviews, scientific observations, or internships. Additionally, The Capstone will also address all significant senior year experiences, including college applications, financial aid, and career readiness.

Prerequisites: *Senior Status*

Designation: College Prep

Credit: 0.25 high school

H.S. Workforce Readiness

Description: This course will emphasize and study character as an avenue for success in post-secondary education or the workforce, equipping students with the necessary executive skills critical in decision making and appropriate behavior, improving relationships through an immersive social environment, motivating students to define their future and their place in society through goal setting and visualization and to be a positive role model and provide a catalyst for student success and achievement.

Prerequisites: *Junior or Senior preferred (career pathway preferred)*

Designation: College Prep

Credits: .5 high school

College 101: Student Experience (AAA 1001)

Description: This course, to be completed during students' first semester at CECCR, will help student develop and implement executive function skills including task initiation, note-taking, time management, and organization. Students will engage in teacher -guided activities and stimulating collaboration, communication, and critical thinking designed to support college readiness. A final project representing students' self-evaluation of executive skills and educational goals will culminate the course.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 1 college credits / 0.5 high school

Advanced Academic Achievement (AAA 1009)

Description: Examines theories and practices associated with successful learning to enhance college success. Techniques covered include academic proficiency, personal management, effective collegiate communication, critical and creative thinking, development of community, awareness of diverse identities, and educational and career planning.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

WORLD LANGUAGES

(H.S) American Sign Language I & II

Description: Exposes the student to American Sign Language. Readiness activities are conducted focusing on visual/receptive skills and basic communication. Utilizes the direct experience method.

Prerequisites: *ASL I – none, ASL II completion of ASL I*

Designation: College Prep

Credits: 1 high school

(H.S.) French I

Description: French I is a semester long course that focuses on the development of students' communicative competence and their understanding of the cultural products, practice and perspectives of the Francophone world. Communicative competence is divided into three modes: speaking and writing as an interactive process in which students learn to communicate with other speakers of French-(Interpersonal mode); reading, listening and viewing as a receptive process in which comprehension is developed-(Interpretive mode); and speaking and writing in a presentational context in which students are focused on organization of thoughts and awareness of their audience when delivering information-(Presentational mode). Students communicate in real-life contexts where grammar and vocabulary are integrated according to various real-life situations in which they are required to function. Many of these tasks also connect to other content areas. Through the language learning process, students develop an understanding of how their own language is structured and how their own culture has unique aspects. Emphasis is placed on the use of French in the classroom as well as on the use of authentic materials to learn about the culture.

Prerequisites: *None*

Designation: College Prep

Credits: 1 high school

(H.S.) French II

Description: French II is a semester long course that focuses on the development of students' communicative competence and their understanding of the cultural products, practice and perspectives of the Francophone world. Communicative competence is divided into three modes: speaking and writing as an interactive process in which students learn to communicate with other speakers of French-(Interpersonal mode); reading, listening and viewing as a receptive process in which comprehension is developed-(Interpretive mode); and speaking and writing in a presentational context in which students are focused on organization of thoughts and awareness of their audience when delivering information-(Presentational mode). This course builds on grammar and vocabulary learned in French I, where students learned to communicate in the present indicative, to include communication in imperative, future and past tenses.

Prerequisites: *French 1 or demonstrating proficiency through a pre-assessment*

Designation: College Prep

Credits: 1 high school

(H.S.) Mandarin Chinese I

Description: Mandarin Chinese I is an introductory course to the Mandarin language and the culture of China. Students will study the basic sentence structure and vocabulary dealing with everyday situations that enable them to communicate effectively in Mandarin at a basic level. Students start developing all five modalities' skills: listening, speaking (pronunciation), reading, and writing in Mandarin Chinese.

Prerequisites: *None*

Designation: College Prep

Credits: 1 high school

(H.S.) Mandarin Chinese II

Description: Mandarin Chinese II is the continuing course to the Mandarin language and the culture of China. Students will study the basic sentence structure and vocabulary dealing with everyday situations that enable them to communicate effectively in Mandarin at a basic level. Students start developing all five modalities' skills: listening, speaking, reading, and writing.

Prerequisites: *Mandarin Chinese I or demonstrating proficiency through a pre-assessment*

Designation: College Prep

Credits: 1 high school

(H.S.) Spanish I

Description: Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.

Prerequisites: *None*

Designation: College Prep

Credits: 1 high school

(H.S.) Spanish II

Description: Spanish II covers introductory vocabulary and phrases related to hobbies and activities, school and home life, and food and culture. Special units will address additional concepts to fulfill CDE state standards, and also to address language-comprehension needs that correlate to specific classes and students.

Prerequisites: *Spanish I or demonstrating proficiency through a pre-assessment*

Designation: College Prep

Credits: 1 high school

(H.S.) Spanish III

Description: Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Applies advanced Spanish grammar through oral and written assessment. Integrates these skills with the study of the cultures in which the language is used, with an emphasis on effective conversational Spanish.

Prerequisites: *Spanish II or demonstrating proficiency through a pre-assessment*

Designation: College Prep

Credits: 1 high school

Spanish I (SPA 1011)

Description: Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture. **Note:** The order of the topics and methodology will vary according to individual texts and Instructors.

Prerequisites: *None*

Designation: College Prep

Credits: 5 college credits/ 2 high school

American Sign Language I (ASL 1121)

Description: Exposes the student to American Sign Language. Readiness activities are conducted focusing on visual/receptive skills and basic communication. Utilizes the direct experience method such as developing a basic syntactic knowledge of American Sign Language (ASL), basic vocabulary and basic conversational skills, incorporating vital aspects of Deaf Culture and the Deaf Community with No Voice Zone in classroom. Students must complete this course with a "B" or higher or pass the ASL proficiency test with a score of at least 80% or better prior to registering for ASL 1122 if planning to enroll in the Interpreter Preparation Program.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 5 college credits/ 2 high school

American Sign Language II (ASL 1122)

Description: Exposes the student to American Sign Language. Readiness activities are conducted focusing on visual/receptive skills and moderate communication. Utilizes the direct experience method such as continuing the development a moderate syntactic knowledge of American Sign Language (ASL), advanced vocabulary and advanced

conversational skills, incorporating vital aspects of immersion within Deaf Culture and the Deaf Community with No Voice Zone in classroom. Students must complete this course with a “B” or higher or pass the ASL proficiency test with a score of at least 80% or better prior to registering for ASL 1122 if planning to enroll in the Interpreter Preparation Program. (NOT OFFERED AT ACC). Note: This course was previously listed as ASL 1121.

Prerequisite(s): ASL 1121 with a “C” or better

Designation: Arapahoe Community College

Credits: 5 college credits/ 3 high school

SOCIAL & BEHAVIORAL SCIENCE/HISTORY

H.S. American Government

Description: This course will provide students with knowledge of United States government that will enable them to participate effectively in civic life in America. Students will examine fundamental constitutional principles; the organization of government at the federal, state, and local level; the rights and responsibilities of citizenship; the policy-making process; and the American economic system.

Prerequisites: *None*

Designation: College Prep

Credits: 1 high school

H.S. Economics

Description: Students will be introduced to the basics of economic principles, and they will learn the importance of understanding different economic systems. They will also investigate how to think like an economist. Students will explore different economic systems, including the American Free Enterprise System, and they will analyze and interpret data to understand the laws of supply and demand. Students will also be presented with economic applications in today’s world. From economics in the world of business, money, banking, and finance, students will see how economics is applied both domestically and globally. Students will also study how the government is involved in establishing economic stability in the American Free Enterprise System as well as the how the U.S. economy has a global impact.

Prerequisites: *None*

Designation: College Prep

Credits: 1 high school

H.S. Geography

Description: World Geography takes students on a journey around the world in which they will learn about the physical and human geography of various regions.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Psychology

Description: This course focuses on the study of human behavior. As an introduction to the field of psychology, this course includes consideration of psychological principles, terminology, major theories, careers, methods of experimentation, and practical applications.

Prerequisites: *None*

Designation: College Prep

Credits: 1 high school

H.S US History I

Description: United States history from founding of North American colonies to 1877 Reconstruction era.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. US History II

Description: United States from 1877 Reconstruction era to contemporary era.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

Principles of Microeconomics (ECO 2002 | GT-HI1)

Description: Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition, and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty, and the environment.

Prerequisites: *None*

Designation: College Prep

Credits: 3 college credits / 1 high school

Principles of Macroeconomics (ECO 2001 | GT-SS1)

Description: Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

The World Antiquity – 1500 (HIS 1110 | GT-HI1)

Description: Explores trends within events, peoples, groups, ideas, and institutions in World History from antiquity to 1500. 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 course focuses on common cultural trends.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college / 1 high school

The World: 1500 – Present (HIS 1120 | GT-HI1)

Description: Explores trends within events, peoples, groups, ideas, and institutions in World History since 1500 as well as on common cultural trends. 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.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college / 1 high school

US History since the Civil War (HIS 1220 | GT-HI1)

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.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

US History to Reconstruction (HIS 1210 | GT-HI1)

Description: Explores trends within events, peoples--including Native American--groups, ideas, and institutions in North America and the United States to Reconstruction. This class 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.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

20th Century World History (HIS 2015 | GT-HI1)

Description: Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions, empires, and nation-states since the late nineteenth century. 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.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Introduction to Mass Media – JOU 1005 | GT-SS3

Description: Places the mass media in a technological, historical, and cultural perspective, considering the validity, integrity, and influence of the evolving media in a democracy. This course is a Statewide Guaranteed Transfer course in the GT-SS3 category

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

American State & Local Government (POS 1025 | GT-SS1)

Description: Emphasizes the structure and function of the state, county, and municipal governments including their relations with each other and with the national government. Includes a study of Colorado government and politics.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

International Relations (POS 2005 | GT-SS1)

Description: Examines relationships among modern nation states. Topics include diplomacy, nationalism, ideologies, power and influence, conflict and cooperation, the role of non-state actors, the international economy and theoretical attempts to understand international behavior.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

General Psychology I (PSY 1001 | GT-SS3)

Description: Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

General Psychology II (PSY 1002 | GT-SS3)

Description: Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, and social psychology.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Social Psychology (PSY 2221 | GT-SS3)

Description: Focuses on the behavior of humans in social settings, including attitudes, aggression, conformity, cooperation and competition, prejudice, and interpersonal attraction.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Human Growth and Development (PSY 2440 | GT-SS3)

Description: Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Abnormal Psychology (PSY 2552 | GT-SS3)

Description: Examines abnormal behavior and its classification, causes, treatment, and prevention.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Introduction to Sociology I (SOC 1001 | GT-SS3)

Description: Examines the basic concepts, theories, and principles of sociology as well as human culture, social groups, and the social issues of age, gender, class, and race.

Prerequisites: *English 099 or English 090 (preferred) and college ready English Accuplacer scores (required)*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Sociology and Family Dynamics (SOC 2005 | GT-SS3)

Description: Develops an understanding of marriage, family, and kinship. It examines the family as an institution and how social, cultural, and personal factors influence family relations. The stability and diversity of the family will be explored, along with current trends and some alternative lifestyles. Note: This course was previously listed as SOC 205.

Prerequisites: *English 099 or English 090 (preferred) and college ready English Accuplacer scores (required)*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

ARTS & HUMANITIES

Introduction to Literature (LIT 1015 | GT-AH2)

Description: Introduces fiction, poetry, and drama. This course emphasizes active and responsive reading.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

World Literature to 1600 (LIT 2001 | GT-AH2)

Description: Examines significant writings in world literature from the ancients to the seventeenth century. It emphasizes active reading and understanding of the works and their cultural backgrounds.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

World Literature After 1600 (LIT 2002 | GT-AH2)

Description: Examines significant writings in world literature from the seventeenth century to the present. It emphasizes active reading and understanding of the works and their cultural backgrounds.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Ethnic Literature (LIT 2005 | GT-AH2)

Description: Focuses on significant texts by ethnic Americans, including African Americans, Native Americans, Latino/a, and Asian Americans. Emphasizes careful reading and understanding of the cultural and literary elements of the works.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

American Literature to the Civil War (LIT 2011 | GT-AH2)

Description: Examines American literary works from pre-European arrival on the continent up to the Civil War, including works from diverse people that contributed to American literature. This course also explores historical and social contexts within various genres.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

American Literature after the Civil War (LIT 2012 | GT-AH2)

Description: Examines American literary works from 1865 to the present, distinguishing among literary themes, genres, and schools of thought that illustrate historical and social contexts across a multicultural spectrum.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Introduction to Shakespeare (LIT 2025 | GT-AH2)

Description: Explores works by William Shakespeare, focusing on a careful reading of these works as well as an exploration of pertinent contextual and historical information.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Introduction to Film Art (HUM 1003 | GT-AH2)

Description: Studies the relationships among film's stylistic systems, narrative systems, and audience reception. Students view, discuss, and critically analyze a variety of films which represent a variety of genres and themes. The course incorporates the vocabulary of stylistic systems (for instance, cinematography and editing) and narrative systems (for instance, story structure and character motivation) as both relate to the kinds of meanings a film conveys.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

World Mythology (HUM 1015 | GT-AH2)

Description: Introduces students to a multidisciplinary approach to world mythology. Common themes are illustrated and connected to religion, philosophy, art, literature, music, and contemporary culture. In addition, students will study various ways of interpreting myth. This course is one of the Statewide Guaranteed Transfer courses.

Prerequisites: *College Readiness in English*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Music Appreciation (MUS 1020 | GT-AH1)

Description: Introduces the study of music focusing on intelligent listening skills, the elements of music and their relationships, the musical characteristics of representative works and composers, common musical forms, and genres of various Western, and non-Western historical style periods.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Music History Early Romantic Period to the Present (MUS 1022 | GT - AH1)

Description: Provides an historical survey of Western art music connecting the classical period to the Romantic period and following to the present. This course includes the study of styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. This is a statewide Guaranteed Transfer course in the GT-AH1 category.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Survey of World (MUS 1023 | GT-AH1)

Description: Provides an overview of music from around the globe including folk, ethnic, non-Western, and popular styles. Develops basic listening skills and builds a historical/cultural context for world music styles to enable an understanding and appreciation of global music

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

History of Jazz (MUS 1025 | GT-AH1)

Description: Provides an overview of jazz history covering the basic materials of music and the forms, media, genres, and the historical and cultural framework of each style period. This course emphasizes the building of critical listening tools and the development of a jazz music vocabulary.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Music Class I (MUS 1031 | Not GT)

Description: Provides group instruction in music, continuing to develop basic techniques, repertoire, and sight-reading.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 2 college credits / 1 high school

Ensemble I (MUS 1051)

Description: Rehearses and performs various types of musical literature.

Prerequisites: *Music Foundations or experience with an instrument for 1+ years*

Designation: Arapahoe Community College

Credits: 1 college credit / 0.5 high school

Ensemble II (MUS 1052)

Description: Rehearses and performs various types of musical literature. First year, second term. Note: This course was previously listed as MUS 152.

Prerequisites: *Music Foundations or experience with an instrument for 2+ years*

Designation: Arapahoe Community College

Credits: 1 college credit / 0.5 high school

Computer Music Applications I (MUS 1061)

Description: Introduces audio signal flow, Digital Audio Workstation (DAW), current computer music software, digital audio practices, Musical Instrument Digital Interface (MIDI) sequencing, and audio for video.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Introduction to Philosophy (PHI 1011 | GT-AH3)

Description: Introduces significant human questions and emphasizes understanding the meaning and methods of philosophy. Includes human condition, knowledge, freedom, history, ethics, the future, and religion.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Ethics (PHI 1012 | GT-AH3)

Description: Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgements, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Comparative Religions (PHI 1014 | GT-AH3)

Description: Introduces students to the similarities and differences among concepts predominant in the major world religions, comparing sociological, philosophical, and phenomenological similarities between major world faiths.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Theatre Appreciation (THE 1005 | GT-AH1)

Description: Provides an opportunity to discover, analyze, and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism, and theory. This is a statewide Guaranteed Transfer course in the GT-AH1 category.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

ELECTIVES

H.S. A+ Certification

Description: Provides students with an in-depth look at personal computer hardware, introduces O.S. features and security concepts, and covers interpersonal skills, all of which are necessary for a successful entry-level computer service technician position. Provides extensive hands-on work with computer systems, PC setup and configuration, and basic maintenance and troubleshooting. This course helps prepare you for the CompTIA A+ Essentials Exam.

Prerequisites: *Foundations of Computer Science is recommended*

Designation: College Prep

Credits: 0.5 high school

H.S. Adobe Certified Professional (Photoshop, Illustrator, Design) 2 of 3:

Description: Adobe Certified Professional is an industry-recognized credential that effectively validates one's skills in Adobe Creative Cloud applications. Adobe Creative Cloud expertise is in demand and validating students' skillsets offer credibility and a competitive edge. Impress employers, clients, and collaborators with proof of the must-have skills for on-the-job success. Enhance creativity and productivity by learning to use Adobe software to its full potential. Gain fluency, refine workflows and focus on what matters most. Start your career in graphic design! Adobe Creative Cloud expertise is in demand. Impress employers, clients, and collaborators with proof of the must-have skills for on-the-job success. Become an Adobe Certified Professional to show you're ready to bring ideas to life using the world's most powerful creative desktop apps.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Art Design

Description: This is an introductory level course designed to teach the elements of art and the principles of design: line, value, space, texture, color, shape, unity, balance, harmony, emphasis, contrast, movement, and pattern/ repetition. Students will work with and in a variety of mediums. Students will also participate in peer critiques both written and oral.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5

H.S. Art Painting/Drawing

Description: Emphasis on drawing and painting with observational drawing components. Utilize art tools, materials, and techniques toward quality art production development of personal and creative style. Concepts and composition, historical, cultural, and critical aspects are emphasized.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Basic Yoga

Description: This class will introduce foundational yoga postures, mindfulness, and breath work. We will observe the physical, mental, and emotional effects of postures, meditations, and breath practices. This is an inclusive environment for all students to make a conscious shift to the present, cultivating energy and mindfulness through the connection of breath and movement.

Prerequisites: *None*

Designation: College Prep

Credits: 0.25 high school

H.S. Choir

Description: Choir is a performance-based singing class that develops sight-reading, pitch memory, basic music notation, proper tone quality, breath management and group performance techniques. Any student can join choir. You do not have to have prior experience. Participation in four concerts plus other special programs is required. This course may be repeated for additional credits. Students can choose to be in both choirs and receive credit for each.

Prerequisites: *None*

Designation: College Prep

Credits: 0.25

H.S. Computer Science Foundation

Description: Computer Science Foundations (CSF) is a course intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Coding, Web Design, and Cybersecurity. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations. Moreover, they will be able to demonstrate logical thought processes and discuss the social, legal, and ethical issues encountered in the IT profession. Depending on the focus area, proficient students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication. Upon completion of the CSF course, students will be prepared to make an informed decision about which Information Technology program of study to pursue. This course will prepare students to take the CompTIA IT Fundamentals+ certification exam.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Digital Media (Adobe)

Description: This course is designed to educate students on the ever-changing digital world, as well as to provide hands-on experience with industry standard software and equipment. The curriculum covers a wide range of areas, so it appeals to a diverse group of students. Topics covered in Digital Media classes include graphic design, animation, audio production, video production, and web design.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Drones: Certification Option in 107 for Commercial Drone Flight

Description: This course introduces students to rules and regulations required for them to pass the UAS Remote Pilot Certification. Students will have hands-on experience piloting a drone. Students that successfully complete this course will have the information necessary for them to pass the FAA's "Part 107" airman knowledge test. The FAA Part 107 is a set of rules for operating a drone commercially. Topics include but are not limited to: Certification Pathway, Drone Theory and Aeronautics, Regulations and Operating Rules, Airspace Classification, Weather, sUAS Loading and Performance, Crew Management, Radio Communications, Airport Operations, and Maintenance and Inspection Procedures. Students must be 16 to take the Part 107 exam but do not need to be 16 to take the course.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Engineering Design 3D Printing

Description: Applied Engineering Design is a course for students interested in further developing their 3D design skills as future engineers. By the end of the courses, they will have an in-depth knowledge of 3D Printing and be able to work independently to design and 3D Print their own models. The students will become proficient in the 3D printing process itself. This course covers knowledge, skills, and concepts required for engineering and technology fields of study. Upon completion of this course, proficient students are able to explain the differences between scientists and engineers, understand the importance of ethical practices in engineering and technology, identify components of control systems, create simple free body diagrams, use measurement devices employed in engineering, conduct basic engineering economic analysis, follow the steps in the engineering design process to complete a team project, and effectively communicate design solutions to others.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 High School

Certificates available: Fusion/Autodesk Fundamentals of Engineering, Programming, and Design Concepts for 3D Printing/Build Projects

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Gifted & Talented

Description: The enrichment class is a course delivered through our Exceptional Student Services Unit for students who have been identified as gifted and talented. The student is currently on an ALP and may want supplementary time to take a more expansive or in-depth look at a concept or topic, perhaps by further research, approaching it with a different lens or perspective, or connecting the subject to a more meaningful or rewarding facet of the real world. This course is available for students who would benefit from time in their educational day to accomplish their goals, and/or support for their unique social-emotional needs. This class may be taken more than once for a .5 elective credit.

Prerequisites: *Gifted Designation*

Designation: College Prep

Credits: 0.25 high school

H.S. Intro to Broadcasting

Description: This course is designed for the student who is interested in the broadcasting industry, including TV, radio, podcasting, and other web casting platforms. While there is an emphasis on television studio production, students will also learn a history of broadcasting, electronic techniques and equipment, writing and planning for broadcasting, and distribution and regulation policies. All of this will be brought forth in a project-based learning environment as students will help create the school news broadcasts in this class.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Introduction to Health Science

Description: This course is designed to give students who are interested in health careers the opportunity to explore basic concepts surrounding professions related to the health field. Instruction includes an introduction to anatomy and physiology, medical terminology, medical ethics, communications, and application of professional practices to both hospital and pre-hospital environments.

Prerequisites: *None*

Designation: College Prep (Start of the CTE Nurse Aide Pathway)

Credits: .5 high school

H.S. IT Fundamentals/Comp TIA Certification

Description: This certification confirms the skills needed for entry-level IT jobs. CompTIA A+ candidates are better prepared to troubleshoot, and problem solve a wider variety of issues, ranging from networking and operating systems to mobile devices and security.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Microsoft Office Certification (Word, Outlook, PowerPoint & Excel) 3 of 4:

Description: This program guarantees that every certified user has demonstrated the ability to command the full features and functionality of Microsoft Office, preparing them for future academic or workforce opportunities. Students will pass an exam for each program in the Office suite to earn a Microsoft Office Specialist certification. Being certified as a Microsoft Office Specialist demonstrates they have the skills needed to get the most out of Office.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Music Ensemble

Description: Music Performance class allows for students to have a space for practice and performance in solo or ensemble settings. All musical genres are welcome (including voice!). Prior knowledge of musical training, and ownership of personal instruments are required. Students will perform in formal concerts and recitals.

Prerequisites: *None*

Designation: College Prep

Credits: 0.25 high school

H.S. Music Foundations

Description: How did music develop to the form we hear today? In music foundations students will explore this question through applied labs that include learning to play various instruments, learning to read music notation, and listening to many different genres of music. No prior music experience required! We will explore genres like Rock, Jazz, Classical, Hip-Hop, EDM,

and more. Students wishing to continue with any instrument after this class has the opportunity to do so in Music Ensemble (MUS 1051).

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. New Media

Description: This class will focus on teaching students hands-on skills that will carry them into the future of media and communications. Course topics include photo manipulation, video editing, audio engineering, creating, and maintaining content, and creating channels. There will be a focus on streaming media around technologies such as YouTube, Facebook Live, Twitch, Podcasting and will include sections on digital citizenship, influencer culture and monetizing content.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Photography

Description: Introduces black and white photography as a fine art medium and develops skills necessary for basic camera and lab operations.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Photojournalism

Description: Develops photojournalistic skills in capturing moments of real life from a unique personal viewpoint. Covers a broad overview of new media story-telling techniques. Students will focus on the way they observe the world around them and, on the content, and quality of their photographs.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Physical Education

Description: Focuses on building movement and physical education of the student. A variety of physical education will be covered.

Prerequisites: *None*

Designation: College Prep

Credits: 0.25 high school

H.S. Programming

Description: The CECP Programming course will introduce students to computer science concepts such as computer architecture, networks, and the Internet. Students will use object-oriented programming to produce finished software programs. They will learn the design process that will allow them to create many programs by determining specifications, designing the software, and testing and improving the product until it meets the specifications. By the end of this course, students will have a solid foundation for further study in computer science. Secondly, it will introduce 3D Printing also called Additive Manufacturing because it involves a 15 3/22/2021 process of depositing material in layers to produce a three-dimensional object. This is done through a computerized process which takes a digital file, commonly in STL format, and creates it in material form. Designs can come from preexisting models, or you can create your own design, which will be an extensive part of this process.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Resource Lab

Description: The resource class is a course delivered through our exceptional student services unit for students who have been identified as a student with a disability. The student is currently on an IEP and may need specialized supplementary instruction in an individual or small group setting for part of the day. This course is available for students who would benefit from time in their educational day to accomplish their goals, and support for working on executive functioning. Students will also have an opportunity to take an active part in their education plan through knowledge of strengths and needs and by learning to advocate for themselves. Students will have the opportunity to explore post-secondary goals related to education and career.

Prerequisites: *None*

Designation: College Prep Elective

Credits: 0.25-0.5 high school

H.S. Robotics I

Description: This course introduces students to the field of robotics. Using VEX EXP Robotics kits this course covers topics necessary to understand the fundamentals of robotics. Working in teams, students will build, program, design, and learn to document their progress. Students who successfully complete this course will understand robot movement, fundamentals of programming, SCRUM methodology, fundamentals of engineering as related to robotics, keeping an engineering notebook, and focus on teamwork and collaboration.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Robotics II

Description: Robotics will allow students to develop skills in the robotics field by studying programming, electronics, pneumatics, hydraulics, and mechanical systems. Robotics applications and career exploration in the robotics industry are incorporated in this course. Students will apply Physical Science, Mathematics, and Technology while getting hands-on experience designing, constructing, and testing robots. This course will be of interest to students planning careers in automated manufacturing and engineering. Students will have the opportunity to compete in several Saturday competitions throughout the semester with teams from around the state. These competitions are not required as part of the class and participation does not affect grades. Prerequisites: Robotics and Automated Systems or previous Robotics experience

Designation: College Prep

Prerequisites: *Completion of Robotics I*

Credits: 0.5

H.S. Social & Emotional Well Being

Description: This course introduces key therapeutic tools and techniques that promote the mental health and wellbeing of the individual. It focuses on building life skills, such as self-awareness and self-regulation while also aiming to reduce stress, anxiety, and the effects of trauma. The course particularly emphasizes skills building in three main areas: emotional regulation, resiliency, and relationship-building.

Designation: College Prep

Prerequisites: *None*

Credits: 0.25 high school

H.S Theatre

Description: This course introduces students to the theatrical arts. We emphasize creativity, collaboration, and perseverance. Areas covered in depth include theatre vocabulary, roles in the theatre, movement, acting, the reading of plays, theatre design and tech, and viewing theatre performances. Students will be involved every day in some performance-based activity. There is an emphasis on memorization, working as a team, and classroom attendance. Students will be creating projects throughout the term in groups/ teams just as they would encounter in the professional theatre world.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

H.S. Yearbook

Description: This course helps produce The CEC Inverness High School yearbook. In this course, students will gain skills in the following areas: page design, publishing techniques, copy writing, editing, photography, record keeping, time management, teamwork, marketing, and leadership skills. Students are tasked with producing a timeless, creative, and innovative publication which will record our school's community, memories, and events. This course is a yearlong course with Yearbook II being offered in the Spring semester, students must enroll in both semesters.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school

Art Appreciation (ART 1110 | GT-AH1)

Description: Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Art Appreciation (ART 1110 | GT-AH1)

Description: Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Drawing I (ART 1201)

Description: Investigates the various approaches and media that students need to develop drawing skills and visual perception.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Art- Painting I (ART 1301)

Description: Explores basic techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting to depict form and space on a two-dimensional surface.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Jewelry and Metalwork I (ART 1604)

Description: Introduces the construction of jewelry designs in metals and small casting techniques.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Introduction to Business (BUS 1015 | Not GT)

Description: Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

Certificates Available: **Entrepreneurship and Small Business Management** Whether you are starting a bakery or launching the next billion-dollar startup, a certification in Entrepreneurship and Small Business validates a students' understanding of core business principles, including the essentials needed to launch and maintain a successful business. **Job Outlook for Business Professionals**

Prerequisites: *English 099 or English 090 (preferred)*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Business Communication and Report Writing (BUS 2017 | Not GT)

Description: Emphasizes effective business writing and covers letters, memoranda, reports, application letters, and resumes. Includes the fundamentals of business communication and an introduction to international communication.

Prerequisites: *English 099 or English 090 (preferred)*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Business Statistics (BUS 2026)

Description: Focuses on statistical study, sampling, organizing and visualizing data, descriptive statistics, probability, binomial distributions, normal distributions, confidence intervals, linear regression, and correlation. Intended for business majors.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Human Nutrition (HWE 1050 | Not GT)

Description: Introduces basic principles of nutrition with emphasis on personal nutrition. This course focuses on macro and micronutrients and their effects on the functions of the human body. Special emphasis is placed on the application of wellness, disease, and lifespan as it pertains to nutrition.

Prerequisites: *None*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Certification Lab

H.S. Autodesk Certified User:

Description: Learn MOS & AutoCAD (computer-aided design) software. You'll develop skills such as creating or plotting drawings, editing objects, working with layouts, etc., preparing you for careers in design, drafting and modeling.

Prerequisites: *None*

Designation: College Prep

Credits: 0.5 high school