



Course offerings are tailored to meet the needs of all students regardless of class year. Students should be available anytime between 7:30 a.m. – 3:35 p.m. Monday through Friday for their assigned courses. All courses are semester-long courses. Although CEC structures its course times very intentionally, there is always the possibility that adjustments will be made leading up to the first day of the semester due to several factors, including class section enrollment. Schedules are subject to change.

ENGLISH

ENG 099 – Non-Fiction Reading and Writing Creative Writing
ENG 121 - English Composition I
ENG 122 - English Composition II
COM 115 - Public Speaking
LIT115 – Introduction to Literature

MATH

MAT 090 - Algebra I
MAT 099 - Algebra II
Geo/Stats – Geometry and Statistics
MAT 120 – Mathematics for Liberal Arts
MAT 121 - College Algebra

SCIENCE

Biology B with Lab
Earth Science
Chemistry with Lab
BIO 111 - General College Biology & Lab (Spring)
BIO 116 - Introduction to Human Disease
AST 155 - Astronomy Ancient Cultures
PHY105 – Conceptual Physics with Lab

SOCIAL SCIENCE

U.S. History II
American Government
HIS 122 - US History since the Civil War
POS 125 – American State and Local Government
ECO 201- Introduction to Macroeconomics
PSY101 – General Psychology I
PSY102 – General Psychology II

WORLD LANGUAGES

Spanish I & II
Chinese II

COLLEGE AND CAREER READINESS

AAA 101- College 101: Student Experience
Workforce Readiness
Microsoft Applications

ELECTIVES

Theatre
MUS 100 - Music Theory Fundamentals I
HS Physical Education
ART 110 - Art Appreciation
ART 121 - Drawing
ART 132 – Visual Concepts 3-D Design

Students will have the opportunity to select additional coursework through Arapahoe Community College. Please click [here](#) to view the ACC Sturm Collaboration Campus Fall 2020 Course Offerings. The ACC Sturm Collaboration Campus is located less than a mile away from our CEC Castle Rock.

**These course availabilities are subject to enrollment. We currently plan to offer these sections but depending on course enrollment the course may be subject to closure*

ENGLISH

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 121. It is highly recommended that students take this course in order 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 121.

Meeting Times: One 70 minute period daily (M-R); 50 minutes on Fridays

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

Designation: College Prep

Credits: 1 high school

English Composition I (ENG 121 | 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.

Meeting Times: Two 70-minute blocks weekly (M/W or T/R)

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

English Composition II (ENG 122 | 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.

Meeting Times: Two 70-minute blocks weekly (M/W or T/R)

Prerequisites: *English Composition I (ENG 121)* and college ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Public Speaking (COM 115 | 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.

Meeting Times: Two 70-minute blocks weekly (M/W or T/R)

Prerequisites: College ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Introduction to Literature (LIT 115 | GT-AH2)

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

Meeting Times: Two 70-minute blocks weekly (M/W or T/R)

Prerequisites: College ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

MATH

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.

Meeting Times: One 70-minute period daily (M-R); 50 minutes on Fridays

Prerequisites: *Algebra I (MAT 090)*, and/or placement via the ACCUPLACER

Designation: College Prep

Credits: 1 high school

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.

Meeting Times: Two 60-minute periods daily (M-F)

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

Designation: College Prep

Credits: 1 high school

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.

Meeting Times: One 70-minute period daily (M-R); 50 minutes on Fridays

Prerequisites: *MAT 090 & Geometry* and/or college ready on the ACCUPLACER

Designation: College Prep

Credits: 1 high school

College Algebra (MAT 121 | 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.

Meeting Times: Four 70-minute blocks weekly (M-R)

Prerequisites: *MAT 099 (Algebra II on an outside transcript)* and college ready math ACCUPLACER scores.

Designation: Arapahoe Community College

Credits: 4 college credits / 1.5 high school

Mathematics for Liberal Arts (MAT 120 | 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.

Meeting Times: Four 70-minute blocks weekly (M-R)

Prerequisites: *MAT 099 (Algebra II on an outside transcript)* and college ready math ACCUPLACER scores for MAT 120.

Designation: Arapahoe Community College

Credits: 4 college credits / 1.5 high school

SCIENCE

Biology B with Lab

Description: Focuses on cellular metabolic activities, photosynthesis and cellular respiration, cells, tissues, organs, and organ systems, and genes.

Meeting Times: One 70-minute period daily (M-R); 50 minutes on Fridays

Prerequisites: *Physics and Chemistry or Physical Science.*

Designation: College Prep

Credits: 0.5 high school

Earth Science

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 causes and effects of various natural disasters.

Meeting Times: One 70-minute period daily (M-R); 50 minutes on Fridays

Prerequisites: *None.*

Designation: College Prep

Credits: 0.5 high school

Chemistry with 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.

Meeting Times: One 70-minute period daily (M-R); 50 minutes on Fridays

Prerequisites: *None.*

Designation: College Prep

Credits: 0.5 high school

Conceptual Physics & Lab (PHYS 105 | GT-SC1)

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

Meeting Times: Four 70-minute blocks weekly (M-F)

Prerequisites: *College Algebra (MAT 121) completed with a C or better and college ready English ACCUPLACER scores.*

Designation: Arapahoe Community College

Credits: 4 college credits / 1.5 high school

Introduction to Human Disease (BIO 116 | 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.

Meeting Times: Two 70-minute blocks weekly (M-R)

Prerequisites: *College ready English ACCUPLACER scores*

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

General College Biology with Lab (BIO 111 | 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. Bio 111 is a challenging and fast-paced class.

Meeting Times: Six 70-minute blocks weekly (M-R)

Prerequisites: College ready math and English ACCUPLACER scores or concurrent enrollment in ENG121

Designation: Arapahoe Community College

Credits: 5 college credits / 2 high school

Astronomy Ancient Cultures (AST155 | GT-SC2)

Description: Introduces the study of archaeoastronomy and ethnoastronomy. The principles of unaided eye observational astronomy, timekeeping, navigation, religion and ritual, political power, cosmology, and worldview are covered. Methods of the ethnoastronomer, including measurement of architectural alignments, analysis of written records, examination of art, and general knowledge about a culture, will be discussed.

Meeting Times: Six 70-minute blocks weekly (M-R)

Prerequisites: College ready math and English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

SOCIAL SCIENCE

US History II

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

Meeting Times: One 70-minute period daily (M-R); 50 minutes on Fridays

Prerequisites: *None.*

Designation: College Prep

Credits: 0.5 high school

American Government

Description: Basic processes in American politics. Principles and structure of national governments.

Meeting Times: One 70-minute period daily (M-R); 50 minutes on Fridays

Prerequisites: *None.*

Designation: College Prep

Credits: 0.5 high school

US History since the Civil War (HIS 122 | GT-HI1)

Description: Explores events trends, people, groups, cultures, ideas, institutions in United States History, including multiple perspectives of gender, class, and ethnicity, between the period of the American Civil War and the present. Focused on developing, practicing and strengthening the skills historians use while constructing knowledge in the discipline.

Meeting Times: Two 70-minute blocks weekly (M/W or T/R)

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

American Government (POS 125 | GT-SS1)

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

Meeting Times: Two 70-minute blocks weekly (M/W or T/R)

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

Principles of Macroeconomics (ECO201 | 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. This is a statewide Guaranteed Transfer course in the GT-SS1 category.

Meeting Times: Two 70-minute blocks weekly (M/W or T/R)

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

General Psychology I (PSY 101 | 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.

Meeting Times: Two 70-minute blocks weekly (M/W or T/R)

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

General Psychology II (PSY 102 | 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.

Meeting Times: Two 70-minute blocks weekly (M/W or T/R)

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

WORLD LANGUAGES

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.

Meeting Times: One 70-minute period daily (M-R); 50 minutes on Fridays

Prerequisites: *None.*

Designation: College Prep

Credits: 1 high school

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 in order to fulfill CDE state standards, and also to address language-comprehension needs that correlate to specific classes and students.

Meeting Times: One 70-minute period daily (M-R); 50 minutes on Fridays

Prerequisites: *Spanish I*

Designation: College Prep

Credits: 1 high school

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.

Meeting Times: One 70-minute period daily (M-R); 50 minutes on Fridays

Prerequisites: *Mandarin Chinese I*

Designation: College Prep

Credits: 1 high school

COLLEGE AND CAREER READINESS

AAA 101: The Student Experience

Description: This course, to be completed during students' first semester at CECP, will help students develop and implement executive function skills including task initiation, note taking, time management, and organization. Students will engage in teacher guided activities 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.

Meeting Times: Two 70 minute blocks weekly (M/W or T/R)

Prerequisites: *none*

Designation: Arapahoe Community College

Credits: 1 college credit/0.25 high school

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.

Meeting Times: Two 70 minute blocks weekly (M/W or T/R)

Prerequisites: *Junior or Senior preferred*

Designation: College Prep

Credits: 0.5 high school

Microsoft Applications

Description: This course is designed as a self-paced course that will allow students to earn various certifications in Microsoft Office Programs. Certifications will be offered in Microsoft Word, PowerPoint, and Excel. While this course is self-paced, it is the expectation that students will earn two of the three certifications before the end of the semester.

Meeting Times: One 70-minute period daily (M-R); 50 minutes on Fridays

Prerequisites: *Junior or Senior preferred*

Designation: College Prep

Credits: 0.5 high school

ELECTIVES

Theatre

Description: The Bard abounds this fall, as CECP is excited to announce our first play. Come join this class and learn all about theater, young and old, culminating in a production of a Shakespeare play. It is going to be FUN.

Meeting Times: One 70-minute period daily (M-R); 50 minutes on Fridays

Prerequisites: None.

Designation: College Prep

Credits: 0.5 high school

Drawing (ART 121 | Not GT)

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

Meeting Times: Two 70-minute blocks weekly (M/W or T/R)

Prerequisites: None.

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Music Theory Fundamentals I: (MUS100 | Not GT)

Description: Focuses on the foundational elements of music theory. The course will cover clef reading, pitch and rhythmic notation, intervals, scales, key signatures, triads and diatonic chords, and an introduction to ear training and sight singing. The course will help beginning music students, including those who have limited background reading music notation and understanding the fundamentals of music theory.

Meeting Times: Two 70-minute blocks weekly (M/W or T/R)

Prerequisites: None.

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

HS Physical Education

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

Meeting Times: One 70-minute period daily (M-R); 50 minutes on Fridays

Designation: College Prep

Credits: 0.5

Art Appreciation (ART 110 | GT-AH1)

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

Meeting Times: Two 70-minute blocks weekly (M/W or T/R) or one 150 minute block weekly (F)

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

Visual Concepts 3-D Design: (ART132 | Not GT)

Description: Focuses on learning to apply the elements and principles of design to three-dimensional problems.

Meeting Times: Two 70-minute blocks weekly (M/W or T/R)

Prerequisites: None.

Designation: Arapahoe Community College

Credits: 3 college credits / 1 high school

Homework Expectations

For every hour of college prep class time, students should expect an average of half an hour of homework.

- E.g. A student taking 6 hours of college prep classes a day should expect an average of 3 hours of homework a night or 15 hours of homework per week.

Students should expect an average of 2-3 hours of homework per *college* credit per week. Students should expect a heavier workload for classes with 4 or 5 credit hours.

- E.g. A student taking four 3 credit hour college classes (12 credits total) should expect an average of 24-36 hours of studying per week.