



Colorado Early Colleges Inverness

Course Catalog 2023-2024

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CEC Graduation Guidelines

University Pathway

- I. English | 4 Credits
- II. Math | 4 Credits
- III. Science | 3 Credits
- IV. Social Science | 3 Credits
- V. World Languages | 2 Credits
- VI. College & Career Readiness | .5 Credits
- VII. Academic Electives | 3.5 Credits
- VIII. Associate Degree or 60 College Credits

Career Pathway

- I. English | 4 Credits
- II. Math | 3 Credits
- III. Science | 2 Credits
- IV. Social Science | 2 Credits
- V. College & Career Readiness | .5 Credits
- VI. Academic Electives | 8.5 Credits
- VII. Industry Approved Certificate

I. English

Every student will be enrolled in an English class *every semester* until 4 English credits are earned. Completion of any 1000-level college English course satisfies the requirement, regardless of credits.

II. Math

Every student will be enrolled in a math class every semester until 3 or 4 math credits are earned (depending on the pathway). Completion of any 1000-level college Math course satisfies the requirement, regardless of credits.

III. Science

Every student must earn 2-3 science credits (dependent on the pathway).

IV. Social Science

Every student must earn 2-3 social science credits (dependent on the pathway), including Civics or U.S. Government (state requirement).

V. World Languages

Every student must complete level II proficiency of a language if on the University Pathway.

VI. College and Career Readiness

Every student must earn 0.5 credits in College and Career Readiness.

VII. Academic Electives

Electives can be completed at the high school or college level.

CEC Inverness Career and Technical Education (CTE) Pathways

	Business	Engineering	Health Science Nurse Aide or Phlebotomy		Computer Science
Level 1 (Fall)	BUS1015 Introduction to Business	Engineering Technology	Introduction to Health Science		Computer Science Foundations (IT Fundamentals+ Certification)
Level 2 (Spring)	BUS2017 Business Communication and Report Writing	Engineering Design	Anatomy and Physiology (pre-req: Biology)		A+ Certification Prep
Level 3 (Fall)	ENP1005 Introduction to Entrepreneurship	Computer Aided Drafting I	HWE1050 Human Nutrition (off-campus)		Network+ Certification Prep
Level 4 (Spring)	Work-Based Learning: Business Capstone	Computer Aided Drafting II	Nurse-Aide Track NUA 1001: Health Care Skills NUA 1070: Clinical Experience NUA 1071: Advanced Nurse Aide Clinical (off-campus)	Phlebotomy Track HPR 1020: Phlebotomy HPR 1080: Internship (off-campus)	Security+ Certification Prep
Industry Certification	Entrepreneurship and Small Business Certification	Auto-Desk Auto CAD Certification	Nurse Aide Certificate Or Phlebotomy Certificate		Students are now prepared to earn a specialized certificate or pursue a degree program.

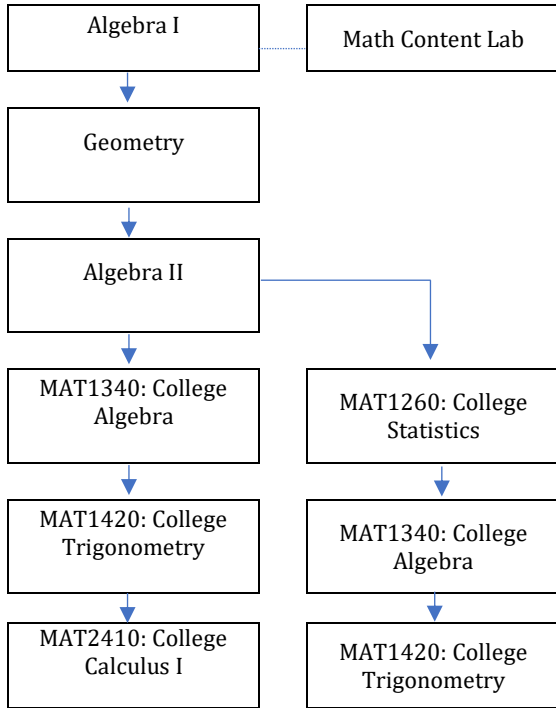
Students also can pursue certificate and degree programs at any of our other college partners including:

- [Arapahoe Community College](#)
- [AIMS Community College](#)
- [Community College of Aurora](#)
- [Community College of Denver](#)
- [Red Rocks Community College](#)
- [Front Range Community College](#)

Course Progression

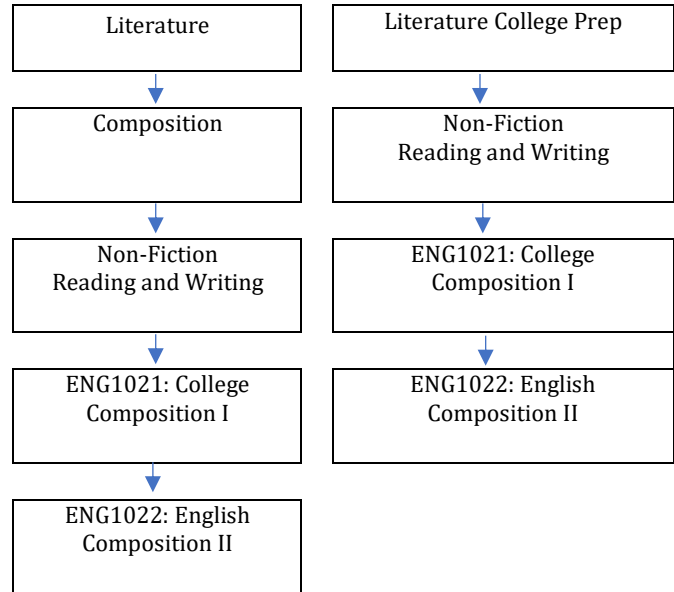
Math Course Progression

Placement dependent on Accuplacer scores and prior course grades.



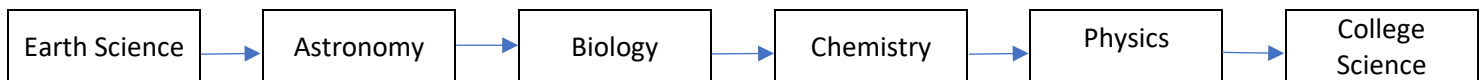
English Course Progression

Placement in English 090 or English 095 dependent on Accuplacer scores and prior course grades.



Science Course Progression

Placement in science classes will depend on math level and prior course grades.



All courses are semester-long courses. College classes typically meet two to four times a week. They are listed with their community college course numbers, e.g., PSY1001. College prep classes meet four to five days a week. Class periods are 70 minutes long. College prep classes that are accelerated earn one credit.

Homework Expectations: For every hour of college prep class time, students should expect an average of half an hour of homework. For example, if a student is taking 6 hours of college prep classes daily, they should expect an average of 3 hours of homework a night or 15 hours of homework per week. Additionally, students taking college level courses should expect an average of 2-3 hours of homework per college credit per week. Expect a heavier workload for classes with 4 or 5 credit hours. For example, a student taking four 3 credit hour college classes (12 credits total) should expect an average of 24- 36 hours of studying per week.

Summary of Course Offerings

ENGLISH & COMMUNICATIONS	
FALL SEMESTER	SPRING SEMESTER
Literature (ENG090-Lit)	Literature (ENG090-Lit)
Composition (ENG090-Comp)	Composition (ENG090-Comp)
Literature College Prep (ENG095)	Literature College Prep (ENG095)
Non-Fiction Reading and Writing (ENG099)	Non-Fiction Reading and Writing (ENG099)
COM 1150 - Public Speaking	COM 1150 - Public Speaking
COM 1250 - Interpersonal Communication: GT-SS3	COM 1250 - Interpersonal Communication: GT-SS3
COM 2300 – Intercultural Communication: GT-SS3	COM 2300 – Intercultural Communication: GT-SS3
ENG 1021 - English Composition I: GT-CO1	ENG 1021 - English Composition I: GT-CO1
ENG 1022 - English Composition II: GT-CO2	ENG 1022 - English Composition II: GT-CO2
LIT 1015 - Introduction to Literature: GT-AH1	LIT 2001 - World Literature to 1600: GT-AH2

MATH	
FALL SEMESTER	SPRING SEMESTER
Math Content Lab	Math Content Lab
Algebra I (MAT090)	Algebra I (MAT090)
Geometry	Geometry
Algebra II (MAT099)	Algebra II (MAT099)
MAT 0341 - College Algebra Support Lab	MAT 0341 - College Algebra Support Lab
MAT 1260 - Introduction to Statistics: GT-MA1	MAT 1260 - Introduction to Statistics: GT-MA1
MAT 1340 - College Algebra: GT-MA1	MAT 1340 - College Algebra: GT-MA1
MAT 1420 - College Trigonometry: GT-MA1	MAT 1420 - College Trigonometry: GT-MA1
MAT 2410 - Calculus I: GT-MA1	MAT 2410 - Calculus I: GT-MA1

SCIENCE

FALL SEMESTER	SPRING SEMESTER
Earth Science w/ Lab	Astronomy
Biology w/ Lab	Biology w/ Lab
	Anatomy and Physiology
Chemistry w/ Lab	Physics w/ Lab
Advanced Science Seminar	Advanced Science Seminar
ANT 1005 - Biological Anthropology w/ Lab: GT-SC1	ANT 1005 - Biological Anthropology w/ Lab: GT-SC1
BIO 1004 - Biology: A Human Approach: GT-SC1	BIO 1004 - Biology: A Human Approach: GT-SC1
BIO 1016 - Introduction to Human Disease: GT-SC2	BIO 1003 - Principles of Animal Biology: GT-SC2
BIO 1111 - General College Biology I w/Lab: GT-SC1	BIO 1112 - General College Biology II w/Lab: GT-SC1

SOCIAL SCIENCE

FALL SEMESTER	SPRING SEMESTER
U.S. History I	U.S. History II
American Government	American Government
World History & Geography	World History & Geography
ANT 1001 - Cultural Anthropology: GT-SS3	ANT 1003 - Introduction to Archeology: GT-SS3
ART 1110 - Art Appreciation: GT-AH1	ART 1110 - Art Appreciation: GT-AH1
HIS 1210 - US History to Reconstruction: GT-HI1	HIS 2015 - 20th Century World History: GT-HI1
MUS 1020 - Music Appreciation: GT-AH1	MUS 1020 - Music Appreciation: GT-AH1
POS 1025 - American State & Local Govt: GT-SS1	POS 1025 - American State & Local Govt: GT-SS1
PSY 1001 - General Psychology I: GT-SS3	PSY 1002 - General Psychology II: GT-SS3
PSY 2552 - Abnormal Psychology GT-SS3	PSY 2552 - Abnormal Psychology GT-SS3

WORLD LANGUAGES

FALL SEMESTER	SPRING SEMESTER
Spanish I	Spanish I
Spanish II	Spanish II

ELECTIVES and CAREER PATHWAY CLASSES

ELECTIVES: Business

FALL SEMESTER	SPRING SEMESTER
Microsoft Office Specialist-ASSOCIATE Certification	Microsoft Office Specialist-ASSOCIATE Certification
Microsoft Office Specialist-EXPERT Certification	Microsoft Office Specialist-EXPERT Certification
Principles of Marketing	Work-Based Learning: Business
BUS 1015 - Introduction to Business	BUS 2017 - Business Communication & Report Writing
ENP 1005 - Introduction to Entrepreneurship	

ELECTIVES: College and Career Readiness

FALL SEMESTER	SPRING SEMESTER
AAA 1009 - Advanced Academic Achievement	AAA 1009 - Advanced Academic Achievement

ELECTIVES: Computer Science

FALL SEMESTER	SPRING SEMESTER
Computer Science Foundations	Computer Science: A+ Certification Prep
Computer Science: Network + Certification Prep	Computer Science: Security + Certification Prep

ELECTIVES: Engineering

FALL SEMESTER	SPRING SEMESTER
Engineering Technology	Engineering Design
Computer Aided Drafting I	Computer Aided Drafting II
Robotics I	Robotics II

ELECTIVES: Health Science Pathway

FALL SEMESTER	SPRING SEMESTER
Introduction to Health Science	Anatomy and Physiology

ELECTIVES: Music

FALL SEMESTER	SPRING SEMESTER
Musical Performance	Musical Performance
MUS 1061 - Computer Music Applications I	MUS 1063 - Music Audio Production I
MUS 2065 – Live Audio Engineering	MUS 2065 – Live Audio Engineering

ELECTIVES: General

FALL SEMESTER	SPRING SEMESTER
ART 1110 - Art Appreciation: GT-AH1	ART 1110 - Art Appreciation: GT-AH1
ART 1201 Drawing I	ART 1703 Ceramics I
Certification Lab	Certification Lab
Freshmen Seminar	
Gifted Seminar	Gifted Seminar
Microsoft Office Specialist-ASSOCIATE Certification	Microsoft Office Specialist-ASSOCIATE Certification
Microsoft Office Specialist-EXPERT Certification	Microsoft Office Specialist-EXPERT Certification
Musical Performance	Musical Performance
Multimedia Design (Yearbook & Newspaper)	Multimedia Design (Yearbook & Newspaper)
Resource Lab	Resource Lab
Student Aide	Student Aide
Work Based Learning A & B/Internship	Work Based Learning A & B/Internship

ENGLISH and COMMUNICATIONS

Literature (ENG090-Lit)

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: None

Designation: College prep

Credits: 0.5 High School

Composition (ENG090-Comp)

Description: Emphasizes critical thinking as students explore writing for specific purposes and audiences. Enables the student to develop skills required for college-level writing while reviewing paragraph structure and focusing on essay development. Enables the student to apply strategies for improving comprehension, developing vocabulary, and increasing rate for non-fiction reading comprehension.

Prerequisites: None

Designation: College prep

Credits: 0.5 High School

Literature College Prep (ENG095)

Description: In this intermediate literature course, students will explore and sharpen their understanding of literary techniques and devices while developing critical thinking skills. This course is aligned to Colorado State literature and writing standards but will be focused primarily on literacy skills.

Prerequisites: Appropriate Accuplacer scores

Designation: College Prep

Credits: 1.0 High School

Non-Fiction Reading and Writing (ENG099)

Description: Successful completion of both Literature and Composition 090 or Literature College Prep 095 and English 099 will provide a comprehensive groundwork preparing students for college English courses and future career writing. Students will continue to foster critical thinking and research skills through reading, discussion, and composition of advanced essays.

Prerequisites: Literature and Composition 090 with a grade of “C” or better or appropriate ACCUPLACER scores

Designation: College Prep

Credits: 1.0 High School

ENG 1021 - English Composition I: GT-CO1

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

Prerequisites: English 090 Lit/Comp or ENG 095 Lit and ENG 099; AND/OR college ready ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

ENG 1022 - English Composition II: 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/or persuasive papers that incorporate research.

Prerequisites: ENG 1021 with a grade of “C” or better

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

COM 1150 - Public Speaking

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

Prerequisites: College ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

COM 1250 - Interpersonal Communication: 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: 3.0 College Credits / 1.0 High School

COM 2300 – Intercultural Communication: 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.

Prerequisites: College ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

LIT 1015 - Introduction to Literature: GT-AH1 (Fall Only)

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

Prerequisites: College ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

LIT 2001 - World Literature to 1600: GT-AH2 (Spring Only)

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 ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

MATH

Math Content Lab

Description: This class is designed to support students enrolled in Algebra I through multiple methods of instruction. This course aligns to Algebra I and is competency based. Individually, deficient mathematical concepts are identified and become the focus of learning for students to gain mastery.

Corequisites: Algebra I as determined by ACCUPLACER scores

Designation: College Prep

Credits: 0.5 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.

Prerequisites: Math 8 or Pre-Algebra or appropriate ACCUPLACER scores

Designation: College Prep

Credits: 1.0 High School

Geometry

Description: Students will learn properties and relations of points, lines, surfaces, and solids. Principles of reasoning will be learned to aid in making conjectures and proving theorems. 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

Designation: College Prep

Credits: 1.0 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.

Prerequisites: Algebra I & Geometry

Designation: College Prep

Credits: 1.0 High School

MAT 0341 - College Algebra Support Lab

Description: Supports skill development necessary for success within College Algebra.

Corequisites: MAT 1340 as determined by ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 1.0 College Credits / 0.5 High School

MAT 1260 - Introduction to Statistics: GT-MA1

Description: An introductory course in statistics intended for students in a broad range of academic fields. Topics discussed include the description and display of data, basic probability, the normal distribution, linear regression, confidence intervals, and hypothesis tests with an emphasis on real-world applications.

Prerequisites: College ready Math ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

MAT 1340 - College Algebra: GT-MA1

Description: Focuses on a variety of functions and the exploration of their graphs. Topics include equations and inequalities, operations of functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways.

Prerequisites: Geometry and Algebra II AND college ready math ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 4.0 College Credits / 1.5 High School

MAT 1420 - College Trigonometry: GT-MA1

Description: This course explores trigonometric functions, their graphs, inverse functions, and identities. Topics include trigonometric equations, solutions of triangles, trigonometric form of complex numbers, and polar coordinates. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways.

Prerequisites: MAT 1340 with a grade of "C" or better; or equivalent ACCUPLACER placement scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

MAT 2410 - Calculus I: 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: MAT 1420 or MAT 1440 with a grade of "C" or better

Designation: Arapahoe Community College

Credits: 5.0 College Credits / 2.0 High School

SCIENCE

Earth Science w/ Lab (Fall Only)

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.

Prerequisites: None

Designation: College Prep

Credits: 0.5 High School

Astronomy (Spring Only)

Description: The Astronomy curriculum builds on the natural curiosity of students. We begin at the birth of the universe and the Big Bang and explore inwards from galaxies to the solar system to our own Earth. We also take an in-depth look at how scientists learn about the universe through forces and light and how these concepts apply to the study of global climates.

Prerequisites: None

Designation: College Prep

Credits: 0.5 High School

Biology with Lab

Description: Biology begins with a focus on the cellular level to explore how living systems work and grow. We begin by looking at the DNA molecule and how it governs the growth of life. From there, we branch out into the structure of the cell and the functions of the cell organelles. The second quarter will focus on the genetic aspects of DNA including the concept of heredity. The second half starts with exploring evidence-based theories on the origins of life on Earth before moving into an exploration of the evidence left behind as life has developed, changed, and evolved throughout history. We will conclude by exploring the different varieties of life and ecosystems that exist on Earth today.

Prerequisites: Algebra I

Designation: College Prep

Credits: 1.0 High School

Anatomy and Physiology (Spring Only)

Description: This course provides a deeper exploration of the human body and biological systems. Students expand their knowledge of the body and terminology/phonetic pronunciations used to describe and locate body parts as well as an overall review of human development and body processes.

Prerequisites: High School Biology

Designation: College Prep

Credits: 1.0 High School

Chemistry with Lab (Fall Only)

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: Algebra I and Biology

Designation: College Prep

Credits: 1.0 High School

Physics with Lab (Spring Only)

Description: Physics is all about answering “why?” We use mathematics and hands-on investigations to explain and predict the workings of the Universe around us. We will begin by looking at motion and forces, including Newton’s 3 Laws of Motion. We will then investigate how energy transfers from one object / form to another. 2nd Quarter will have us looking more closely at 2-dimensional forces, gravity, and torque. If time allows, we will investigate harmonic motion and circular motion. These concepts will be applied to many real- and fictional-world scenarios, including sports and the *Avengers*.

Prerequisites: Algebra I, Geometry, Algebra II (or co-enrolled in Algebra II) and Chemistry

Designation: College Prep

Credits: 1.0 High School

Advanced Science Seminar

Description: This course is designed to provide students with the opportunity to explore higher-level science topics that are omitted from the one-semester high-school science courses. The goal is two-fold: We want to allow students to explore science to satisfy their natural curiosity, and we want to ensure students have full access to all the content they would need to be setup for success in advanced STEM courses at the college level. Students will be grouped by interest (Biology, Physics, or Chemistry) and work through self-guided curricula while the teachers help with pacing, content support, and setup of labs. Any student with an interest in science can take this course to explore higher levels of science and to prepare for rigorous college courses.

Prerequisites: High-school Biology, Chemistry, and/or Physics (depending on area of focus)

Designation: College Prep (Pass/Fail)

Credits: 0.25 High School

ANT 1005 - Biological Anthropology w/ Lab: GT-SC1

Description: Focuses on the study of the human species and related organisms, and examines principles of genetics, evolution, anatomy, classification, and ecology, including a survey of human variation and adaptation, living primate biology and behavior, and primate and human fossil evolutionary history.

Prerequisites: College ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 4.0 College Credits / 1.5 High School

BIO 1003 - Principles of Animal Biology: GT-SC2 (Spring Only)

Description: Introduces the study of animals and their interactions with the environment. This course includes principles of evolution, taxonomy, phylogeny, morphology, behavior, and ecology. It includes the study of animal diversity, emphasizing the characteristics and classifications of major phyla. The loss of biodiversity and conservation will also be covered.

Prerequisites: High School Biology and college ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

BIO 1004 - Biology: A Human Approach: GT-SC1

Description: Develops a basic knowledge of the structure and function of the human body by studying the body's structure as a series of interrelated systems. Includes cardiovascular, respiratory, digestive, lymphatic, musculoskeletal, nervous, endocrine, reproductive, and urinary systems, and genetics. Emphasizes disease prevention and wellness. This course includes laboratory experience.

Prerequisites: High School Biology, Algebra II and college ready English and Math ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 4.0 College Credits / 1.5 High School

BIO 1016 - Introduction to Human Disease: GT-SC2 (Fall Only)

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: High School Biology and college ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

BIO 1111 - General College Biology I w/Lab: GT-SC1 (Fall Only)

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: High School Biology, Algebra II and college ready English and Math ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 5.0 College Credits / 2.0 High School

BIO 1112 - General College Biology II with Lab: GT-SC1 (Spring Only)

Description: A continuation of Biology I. Includes ecology, evolution, classification, structure and function in plants and animals. This course includes laboratory experience.

Prerequisites: BIO 1111 with a grade of "C" or better

Designation: Arapahoe Community College

Credits: 5.0 College Credits / 2.0 High School

SOCIAL SCIENCE

American Government

Description: This course is a study of the origins, development, structure, and functions of American national government to include the Articles of Confederation to the U.S. Constitution and its principles. Topics include the constitutional framework; federalism; the three branches of government, including the bureaucracy; civil rights and liberties; political participation and behavior; and policy formation.

Prerequisites: None

Designation: College Prep

Credits: 1.0 High School

United States History I (Fall Only)

Description: United States History I explores American history from 1492 to the US Civil War. Trends within events, peoples--including Native American--groups, ideas, and institutions in North America and the United States to Reconstruction will be explored. This course introduces the major political, social, and economic trends in the American colonies and new nation from the 15th through the mid-19th centuries. The course also focuses specifically on diversity and the cross-cultural encounters that contributed to the creation of the United States.

Prerequisites: None

Designation: College Prep

Credits: 0.5 High School

United States History II (Spring Only)

Description: United States History II explores American history from Reconstruction – 1865 to the recent past. A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

Prerequisites: None

Designation: College Prep

Credits: 0.5 High School

World History and Geography

Description: The main focus of this course study is history, but there will also be specific study of geography, economics, sociology and other areas interwoven into the class. Students study the beginnings of human history in Africa and the Middle East, historical and present-day Asia, European history, and the history of the western hemisphere.

Prerequisites: None

Designation: College Prep

Credits: 0.5 High School

ANT 1001 - Cultural Anthropology: GT-SS3 (Fall Only)

Description: Examines the study of human cultural patterns, including communication, economic systems, social and political organizations, religion, healing systems, and cultural change.

Prerequisites: College ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

ANT 1003 - Introduction to Archeology: GT-SS3 (Spring Only)

Description: Introduces the science of recovering the human prehistoric and historic past through excavation, analysis, and interpretation of material remains. The course provides a survey of the archaeology of different areas of the Old and New Worlds, the works of selected archaeologists, and major archaeological theories.

Prerequisites: College ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

ART 1110 - Art Appreciation: GT-AH

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

Prerequisites: College ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

HIS 1210 - US History to Reconstruction: GT-HI1 (Fall Only)

Description: This course discusses the earliest beginnings of people in North America and continues until Reconstruction. We ask and explore the following topics: Citizenship: Who gets to belong or not belong in the USA? Who makes these choices? How are they enforced? Slavery: What is the long term legacy of slavery from the beginnings of the USA? How are we still contending with that legacy? Political Power: Who holds power in the US? What is the balance between states and the federal government? How does it change over time?

Prerequisites: College ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

HIS 2015 - 20th Century World History: GT-HI1 (Spring Only)

Description: This class will cover major international affairs over the 1900s. We will discuss a range of issues: colonization, imperialism, war, politics, religion, and the environment. This is a study of international relations and foreign affairs. The goal of this class is for you to walk away with a greater sense of the world and the long history of major current events. We will interrogate historical forces, political power, race, ethnicity, and how nations and non-state actors all interact.

Prerequisites: College ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

MUS 1020 - Music Appreciation: 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: College ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

POS 1025 - American State & Local Govt: 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. This class fulfills state civics requirement.

Prerequisites: College ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

PSY 1001 - General Psychology I: GT-SS3 (Fall Only)

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 ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

PSY 1002 - General Psychology II: GT-SS3 (Spring Only)

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

Prerequisites: College ready English ACCUPLACER scores

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

PSY 2552 - Abnormal Psychology GT-SS3

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

Prerequisites: PSY 1001 or PSY 1002 with a grade of "C" or better

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 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.

Prerequisites: None

Designation: College Prep

Credits: 1.0 High School

Spanish II

Description: Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.

Prerequisites: Spanish I

Designation: College Prep

Credits: 1.0 High School

ELECTIVES and CAREER PATHWAY CLASSES

High School Electives

Certification Lab

Description: The certification lab offers the certs for Adobe Photoshop, Illustrator, InDesign, Autodesk certified user (AutoCAD), Microsoft certifications (Word, Excel, PowerPoint, and Outlook) and Intuit Quickbooks.

Prerequisites: *Students must be in good academic standing*

Designation: College Prep (Pass/Fail)

Credits: 0.5

Computer Aided Drafting I (Fall Only)

Description: Focuses on basic computer aided drafting skills using the AutoCAD software. Includes file management, Cartesian coordinate system & dynamic input, drawing templates, drawing aids, linetype and lineweights, layer usage, drawing & editing geometric objects, polylines & splines, array, text applications, creating tables, basic dimensioning and Help access.

This course counts as the Level 3 course for the Engineering Career Pathway and prepares students for the CAD certification.

Prerequisites: None

Designation: College Prep

Credits: 0.5 High School

Computer Aided Drafting II (Spring Only)

Description: Focuses on intermediate 2D Computer aided drafting skills using the AutoCAD software. Includes blocks, wblocks & dynamic blocks, hatching, isometric drawings, advanced dimensioning and dimension variables, layouts, paper space and viewports, templates, external references, attributes, raster images, & printing/plotting.

This course counts as the Level 4 course for the Engineering Career Pathway and prepares students for the CAD certification.

Prerequisites: Computer Aided Drafting I

Designation: College Prep

Credits: 0.5 High School

Computer Science Foundations (Fall Only)

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.

This course counts as the Level 1 course for the Computer Science Career Pathway.

Prerequisites: None

Designation: College Prep

Credits: 0.5 High School

Computer Science: A+ Certification Prep (Spring only)

Description: CompTIA A+ is a performance-based certification. The students will be prepared to troubleshoot, and problem solve a wider variety of issues, ranging from networking and operating systems to mobile devices and security. This course is designed using the CompTIA **Cert Master Learn** preparing students for the CompTIA A+ 220-1001 (Core 1) and 220-1002 (Core 2) certification exams. Students will use multiple learning formats to learn how to install, manage and secure computer hardware and master home and corporate OS environments. Certifications will be offered either at the end of the semester or after the semester is over depending on the student's proficiency in the material.

This course counts as the Level 2 of Computer Science Career Pathway.

Prerequisites: Computer Science Foundations

Designation: College Prep

Credits: 0.5 High School

Computer Science: Network + Certification Prep (Fall only)

Description: This certification measures the ability to perform tasks related to the management of hardware, software, and networking components such as IP Configuration, setting up wired and wireless networks, managing networks and basic network security, upgrades, and protocols. This course is designed using the CompTIA **Cert Master Learn** preparing the students for the CompTIA Network + N10-008 Certification Exams. Students will use multiple learning formats that cover networking and telecommunications concepts and skills to help students enter the workforce as an IT Network Administrator. Certifications will be offered either at the end of the semester or after the semester is over depending on student's mastery of the material.

This course counts as the Level 3 of Computer Science Career Pathway

Prerequisites: Foundations of Computer Science and A+ Certification Prep

Designation: College Prep

Credits: 0.5 High School

Computer Science: Security+ Certification Prep (Spring Only)

Description: This certification measures an examinee's ability to perform tasks commonly performed by IT security professionals such as network and systems administrators and IT security specialists. These professionals are typically responsible for helping to implement and maintain security protocols and best practices. This certification shows the ability to implement layered security through group policy objects, access control lists, wireless and wired local area network security measures, and workstation and mobile device security measures. CompTIA **Cert Master Learn** is used for the preparation and certifications will be offered at the end of the semester or after the semester is over depending on students' mastery of the material.

This course counts as the Level 4 of Computer Science Career Pathway

After completing this course students will be ready to specialize in other Network or Cybersecurity certificates or complete a degree.

Prerequisites: Foundations of Computer Science, A+ Certification Prep, and Network+ Certification Prep

Designation: College Prep

Credits: 0.5 High School

Engineering Technology (Fall Only)

Description: Principles of Engineering and Technology is designed to introduce students to the STEM cluster for students interested in learning more about careers in engineering and technology. This course covers basic skills required for engineering and technology fields of study. Upon completion of this course, students can identify and explain the steps in the engineering design process. They can evaluate an existing engineering design, use fundamental sketching and engineering drawing techniques, complete simple design projects using the engineering design process, and effectively communicate design solutions to others. *This course counts as the Level 1 course for the Engineering Career Pathway.*

Prerequisites: None

Designation: College Prep

Credits: 0.5 High School

Engineering Design (Spring Only)

Description: Introduction to Engineering Design is the second level course in the Engineering Career Pathway for students interested in developing their skills in preparation for careers in engineering and technology. The course covers essential knowledge, skills, and concepts required for postsecondary engineering and technology fields of study. Upon completion of this course, proficient students are able to describe various engineering disciplines, as well as admissions requirements for postsecondary engineering and engineering technology programs in Colorado. They will also be able to identify simple and complex machines, calculate various ratios related to mechanisms, explain fundamental concepts related to energy, understand Ohm's Law, follow the steps in the engineering design process to complete a team project, and effectively communicate design solutions to others.

Prerequisites: Engineering Technology

Designation: College Prep

Credits: 0.5 High School

Freshmen Seminar (Fall Only)

Description: This course is designed to help students develop strategies and skills necessary for a successful student experience at CECI. Topics include adjusting to college, setting academic goals, time management, organization, study skills, communication skills, using on-campus support services, social and emotional wellbeing, college exploration, and accessing CECI and ACC computer technology. Students will learn to utilize CECI and ACC's resources. Throughout the course, students will use critical thinking skills to make informed choices, to understand their responsibilities for academic success, and to become independent, motivated learners.

Prerequisites: None

Designation: College Prep (Pass/Fail)

Credits: 0.25 High School

Gifted Seminar

Description: The number one request from gifted students at the CAGT conference in 2018 was to group them together and let them thrive. That is the primary goal for the GT seminar – give gifted students a place to support each other and work together to achieve incredible things. Students will get the chance to see that they are not alone in the world of the gifted and support each other with common struggles such as perfectionism, anxiety, stress, and isolation as well as take a deeper dive into any academic area the students are interested in.

Prerequisites: Current ALP or instructor approval

Designation: College Prep (Pass/Fail)

Credits: 0.25 High School

Introduction to Health Science (Fall Only)

This one semester introductory Health Science course provides an overview of the challenging environments and occupations in the healthcare field. Students are provided a hands-on application of the foundational skills/knowledge including health maintenance, employability skills, teamwork, healthcare systems, communications, and legal issues in healthcare.

Prerequisites: None

Designation: College Prep

Credits: 0.5 High School

Microsoft Office Specialist-ASSOCIATE Certification

Description: The Microsoft Office Specialist (MOS) Program provides industry-leading assessments of skills and knowledge through project-based testing. These certifications include multiple, small projects within Microsoft Office. Students will be tested on one project at a time. These small projects will test their skills as they would in the real world and validate their understanding of the Microsoft Office program functionality. This guarantees that every certified user has demonstrated the ability to operate the full features and gives students a commanding competitive edge in today's academic and professional environments. **To earn the MOS-Associate Certification, students must choose and pass three of the four certifications listed below:**

Outlook: Students will expand and prove technical skills by demonstrating how to customize the Outlook user interface format message content, create or insert graphic elements, and send and respond to emails and meeting requests. They can also manage and share multiple calendars, schedule meetings and appointments, create contact records and tasks, and set up contact groups to facilitate communication with other Outlook users.

Word: Students will learn to perform a number of Word tasks, such as creating and managing documents, formatting text, paragraphs and sections, creating tables and lists, applying references and inserting and formatting objects.

Excel: Students will learn the fundamentals of creating and managing worksheets and workbooks, creating cells and ranges, creating tables, applying formulas and functions and creating charts and objects.

PowerPoint: Students will learn to create and manage presentations, insert and format shapes and slides, create slide content, apply transitions and animations and manage multiple presentations.

Prerequisites: None

Designation: College Prep (Pass/Fail)

Credits: 0.5 High School

Microsoft Office Specialist-EXPERT Certification

Description: The Microsoft Office Specialist-Expert Certification is an extension of the MOS-Associate Certification. It requires choosing and passing two of the following three Expert exams:

Word-Expert: Student will learn to customize Word environments to meet project needs, and to enhance productivity. Examples of expert-level documents include a business plan, a research paper, a book, a specialized brochure, and a mass mailing. Candidates are expected to demonstrate the correct application of the principal features of Word at an expert-level and complete tasks independently.

Excel-Expert: Students will learn to customize Excel environments to meet project needs and to enhance productivity. Expert workbook examples include custom business templates, multiple-axis financial charts, amortization tables, and inventory schedules. Candidates are expected to demonstrate the correct application of the principal features of Excel at an expert-level and complete tasks independently.

Access-Expert: Students will learn to create and maintain Access Database objects including tables, relationships, data entry forms, multilevel reports, and multi-table queries. Candidates are expected to demonstrate the correct application of the principal features of Access and complete tasks independently.



Prerequisites: Microsoft Office Specialist-Associate Certification

Designation: College Prep (Pass/Fail)

Credits: 0.5 High School

Multimedia Design (Yearbook & Newspaper)

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.

Prerequisites: None

Designation: College Prep

Credits: 0.25 High School

Musical Performance (Beginning, Intermediate, Advanced)

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: 0.5 High School

Principles of Marketing (Fall Only)

Description: This project-based business course develops student understanding and skills in such areas as channel management, marketing-information management, market planning, pricing, product/service management, promotion, and selling. Through the use of projects, students acquire an understanding and appreciation of marketing activities. Current technology will be used to acquire information and to complete the projects. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills.

Prerequisites: None

Designation: College Prep

Credits: 0.5 High School

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: Elective (Pass/Fail)

Credits: 0.5 High School

Robotics I (Fall Only)

Description: Robotics is a high school level course for students who are interested in the design, engineering, and programming of robots. This is a lab-based course that uses a hands-on approach to introduce the basic concepts of robotics, documenting in an engineering notebook and focusing on the construction and programming of mobile robots. Students will work in various groups to document, build, program and test increasingly more complex mobile robots, culminating in an end-of-semester robot contest. The robotics platform that we will use is the VEX Robotic Design System.

Prerequisites: None

Designation: College Prep

Credits: 0.5 High School

Robotics II (Spring Only)

Description: In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

Prerequisites: Robotics I

Designation: College Prep

Credits: 0.5 High School

Student Aide

Description: A Student Aide, is responsible for completing a range of clerical tasks to uphold operations. Their duties include, but are not limited to, taking phone calls, messages, and transferring callers to other staff, making copies, distributing mail, running passes/messages, and other general tasks.

Prerequisites: Submit application with 2 recommendations (teacher, advisor, or administrator). Minimum 2.5 GPA, excellent work ethic, excellent attendance, and trustworthiness.

Designation: Elective

Credits: 0.25 High School

Student Government

Description: This course develops students into leaders through the study and practice of the core principles of American Government and Democracy. Students learn and practice the processes of American Government including elections, rules of order and decorum, public debate, and committees. Co-curricular course where students participate in Student Council. Students can do one or the other or both. It is highly recommended that students that want to serve on Student Council sign up for the course.

Prerequisites: None

Designation: Elective

Credits: 0.5 High School

Work Based Learning: Business (Spring Only)

Description: Guides students through the evaluation of a business concept. This course will include writing a comprehensive business plan. This course explores both traditional and lean business planning to establish strategic vision and direction for a business. This course assesses the strengths and weaknesses of a business concept. This course will include identifying external and environmental factors related to business ownership and evaluating various resources available for funding small businesses. This course will prepare students for taking the [Entrepreneur and Small Business Certificate](#) exam.

This course counts as the Level 4 course for the CTE Business Pathway.

Prerequisites: BUS 1015 or BUS 2017 and ENP 1005

Designation: College Prep (Pass/Fail)

Credits: 0.5 High School

Work Based Learning: A & B/Internship

Description This course allows students to earn elective credit for approved internships, apprenticeships or paid work experiences that align with the student's postsecondary goals. Work experiences must meet a minimum of 50 hours in the semester to be eligible. Speak with your advisor if you are interested in this opportunity.

Prerequisites: None

Designation: College Prep (Pass/Fail)

Credits: 0.5 – 1.0 High School

College Course Electives

AAA 1009 - Advanced Academic Achievement

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: 3.0 College Credits / 1.0 High School

ART 1201 - Drawing I (Fall Only)

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

Prerequisites: None

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

ART 1703 - Ceramics I (Spring Only)

Description: Introduces traditional and contemporary ceramic forms and processes including hand building and throwing on the potter's wheel.

Prerequisites: None

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

BUS 1015 - Introduction to Business (Fall Only)

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.

course counts as the Level 1 course for the Business Career Pathway.

Prerequisites: None

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

BUS 2017 - Business Communication and Report Writing (Spring Only)

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.

This course is the Level 2 of the Business Career Pathway

Prerequisites: None

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

ENP 1005 - Introduction to Entrepreneurship (Fall only)

Description: Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

This course counts as the Level 3 course for the Business Career Pathway.

Prerequisites: None

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

MUS 1061 - Computer Music Applications I

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: 3.0 College Credits / 1.0 High School

MUS 1063 - Music Audio Production I

Description: Designed to give music majors and students with a strong interest in music a basic understanding of the Music Production process. This includes the basic knowledge of audio/music production, the fundamentals of sound and microphone, digital and analog technology, recording, and mixing.

Prerequisites: None

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School

MUS 2065 - Live Audio Engineering

Description: Covers the concepts and technical skills of live sound reinforcement. Topics include basic audio concepts, the operation and interconnection of a sound system, signal processing, and the duties of the sound engineer.

Prerequisites: None

Designation: Arapahoe Community College

Credits: 3.0 College Credits / 1.0 High School