

2025-2026

COURSE CATALOG

COLORADO
EARLY COLLEGES
AURORA



1400 S Abilene St
Aurora, CO 80012

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Graduation Requirements

The CEC Governing Board has established the following graduation requirements for all students. The minimum requirement of 20 credits in the categories listed below will result in a high school diploma. All students must earn an associate degree, postsecondary credential, or at least 60+ college credits in addition to meeting the high school graduation requirements to be awarded a CEC diploma:

Content Area	Credits Required	Notes
English	4 credits	
Math	3 credits	Completion of an Associate of Applied Science degree waives this requirement
Science	2 credits	Completion of an Associate of Applied Science degree waives this requirement
Social Sciences	2 credits	Social Science credit includes the satisfactory completion of a civics/government course that encompasses information on both the history & culture of the US & Colorado Government (CRS 22-1-104) Students must also take a course that incorporates the academic standards on Holocaust & Genocide studies as states in Colorado law (HB20-1336)
Academic Electives	9 credits	Electives must include a minimum of one credit college/career readiness course unless waived by the Head of School. World language is highly encouraged for any student planning on applying to a four-year university
TOTAL CREDITS	20	

The successful completion of a 1000 level college course in English and math satisfies HEAR requirements and thus meets CEC graduation requirements only in English and math regardless of credits.

The Individual Career and Academic Plan (ICAP) will set out a course of study for each student based on completion of all requirements for graduation. Students are required to participate in and successfully complete the requirements and goals of the ICAP process.

Full-time students transferring from other educational programs must meet CEC's graduation requirements to be awarded a CEC high school diploma. Part-time students do not need to meet CEC's graduation requirements as they are not eligible to graduate from CEC.

Graduates must demonstrate, at a minimum, College and Career Readiness in English and math through one or more of the following approved options found on the Menu of College and Career-Ready Demonstrations Fact Sheet. Further guidance on postsecondary credentials and the Menu

of Options can be found in the “CEC Guidance on Postsecondary Credentials and Menu of Options” document.

Exceptional Students

Regardless of whether the course work for a student with an IEP is aligned with the Colorado Academics Standards or Extended Evidence Outcomes, CEC will provide accommodations to enable the student receiving special education services to reach the same standards as students without disabilities. However, CEC will not modify any standard that any student must demonstrate in college or career readiness on the Graduation Guidelines Menu of Options in the areas of English or math.

Menu of Options

	Reading	Math
Accuplacer	241+ Reading or 236+ Sentence Writing	255+ Arithmetic 230+ Quantitative Reasoning, Algebra, and Statistics
ACT	18+	19+
SAT	500+	480+
Concurrent Enrollment	C or higher in college English class	C or higher in college math class

Honors

- Honors: 30-59 college credits and one postsecondary or industry certification or 3 postsecondary or industry certifications.
- High Honors: Associate degree or 60+ college credits.
- Cum Laude (with praise): 3.75-3.89 cumulative weighted GPA.
- Magna Cum Laude (with great praise): 3.9 – 4.199 cumulative weighted GPA.
- Summa Cum Laude (with highest praise): 4.2 and above cumulative weighted GPA.
- Seal of Biliteracy: CLEP 60+, ENG 1021, 3.0 English GPA

Graduation Credit Tracker

Directions: Each box represents a required .5 credit to graduate. Mark your completed classes in each category to track your progress. While students are required to earn 20 high school credits, earning more within your 4 years is highly encouraged!

English

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Math

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Science

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Social Sciences & Humanities

Civics	Holocaust		
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Electives

Career Course	Career Course						

Menu Of Options

Math	English
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Certificate or Degree

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Course Offerings

English

ENG 090 – Accelerated Foundational College Prep English
ENG 090 I – Foundational College Prep English
ENG 090 II – Foundational College Prep English
ENG 095 – Comprehensive College Prep English
ENG 099 – Cumulative College Prep English Creative Writing I
Creative Writing II
ENG 1021 – English Composition I
ENG 1022 – English Composition II
ENG 2021 – Creative Writing I
LIT 1015 – Intro to Literature
LIT 2046 – Literature of Women
LIT 2058 – Latinx Literature
COM 1150 – Public Speaking
COM 1250 – Interpersonal Communication

Math

MAT 090 – Accelerated Algebra I
MAT 090 I – Algebra I a
MAT 090 II – Algebra I b
Geometry
MAT 099 – Algebra II
Financial Literacy
MAT 1140 – Career Mathematics
MAT 1260 – Statistics
MAT 1340 – College Algebra
Applied Math I
Applied Math II

Science

Anatomy & Physiology
Astronomy
Biology with Lab A
Biology with Lab B
Chemistry with Lab A

Chemistry with Lab B
Physics with Lab A
Physics with Lab B
Intro to Health Sciences
Medical Terminology
BIO 1005 – Science of Biology with Lab

Social Science & Humanities

Civics
Geography
Early US History
Modern US History
Early World History
Modern World History
Mythology & Folklore
20th Century History
Western Civilization
CRJ 1010 – Intro to Criminal Justice
ECO 2001 – Principles of macroeconomics
ECO 2002 – Principles of Microeconomics
Geo 1006 – Human Geography
HIS 1120 – The World 1500- Present
HIS 1220 – US History Since the Civil War
PHI1 011 – Intro to Philosophy
PSC 1025 – American State & Local Gov
PSC 2005 – International Relations
PSC 2020 – Intro to Political Science

Career Tech Education

Aviation

Intro to Aviation
AES 1400 – Aviation Weather
AES 1040 - Aviation UAS & Drone Technology
AES 1100 Advanced Flight

Behavioral Health

BEH 1001 - Mental Health Crisis and Intervention
PTE 1010 – Intro to Behavior Health

HPR 1000 – Intro to Health
HPR 1038 – Introduction to Medical
Terminology
SWK 1000 – Intro to Social Work

Business

Entrepreneurship
Marketing Fundamentals

Computer Science

Digital Literacy
Certification Lab
Microsoft Applications
Unity User

Construction

Principles of Construction
Carpentry I
Electrical I

Culinary

ServSafe I
ServSafe II

Engineering

Intro to Engineering
Digital Electronics
Robotics
Work Based Learning

Health Science

Intro to Health Science - HPR 1006 + HPR
1007
Anatomy & Physiology
HPR 1040 – Medical Terminology
HPR 1008 – Law & Ethics in Healthcare
Phlebotomy

Electives

Business

BUS 1015-Intro to Business
BUS 2017-Business Communication & Report
Writing

Enrichment

Advisory
Enrichment
Study Hall

Fine Arts

2D Studio Art
3D Ceramics
ART 1201 – Drawing I
ART 1202 – Drawing II
ART 1301 – Painting I
ART 1703 – Ceramics I

Acting I
Acting II
Theater I
Theater II
Journalism

Postsecondary & Workforce Readiness

Career Explorations
College & Career Readiness

World Language

Spanish I
Spanish II
Spanish for Heritage Speakers I
Spanish for Heritage Speakers II
Spanish for Heritage Speakers III
Spanish for Heritage Speakers IV
Spanish Literature I
Spanish Literature II

Student Support Services

ELD I
ELD II
ELD III
Collaboration Group
Focus Group
Resource Room

Course Descriptions

English

English 090: Accelerated Foundational College Prep English

Description: This accelerated English 090 is designed to support students in building a strong foundation in reading and writing skills required to be successful in the next level of college preparatory courses. In addition to these content-related skills, this course will also support students in developing academic skills such as organization, accountability, and self-advocacy. The focus will be on communicating in a clear, structured way both verbally and through written work as well as understanding communication from others. We will practice these skills in many different ways including sentence, paragraph, and essay writing, close readings, whole class novels, annotating, Socratic seminars, presentations, and collaborative projects.

Prerequisite: none

Designation: College Prep

Credit Type: English

Credits: 1.0 HS

Contact Hours: 57

English 090 I: Foundational College Prep English

Description: English 090 I is designed to support students in building a strong foundation in reading and writing skills required to be successful in the next level of college preparatory courses. In addition to these content-related skills, this course will also support students in developing academic skills such as organization, accountability, and self-advocacy. The focus will be on communicating in a clear, structured way both verbally and through written work as well as understanding communication from others. We will practice these skills in many different ways including sentence, paragraph, and essay writing, close readings, whole class novels, annotating, Socratic seminars, presentations, and collaborative projects.

Prerequisite: none

Designation: College Prep

Credit Type: English

Credits: 0.50 HS

Contact Hours: 57

English 090 II: Foundational College Prep English

Description: English 090 II is designed to continue building on the content covered in English 090 I. Students will continue mastering the academic standards and skills required to be successful in the next level of college preparatory courses.

Prerequisite: none

Designation: College Prep

Credit Type: English

Credits: 0.50 HS

Contact Hours: 57

English 095: Comprehensive College Prep English

Description: The purpose of English 095 is to develop the skills required to be successful, independent readers and writers in all genres and subject matters. This course will provide students with the opportunity to practice reading strategies to develop critical thinking skills, identify literary elements that contribute to the text's value, and improve vocabulary. In addition, the course will provide students with the opportunity to practice each step of the writing process, including pre-writing, outlining, editing, and revision. We will practice these skills in many different

ways including close readings, whole class novels, Socratic seminars, essay writing, presentations, and collaborative projects.

Prerequisite: none

Designation: College Prep

Credit Type: English

Credits: 1.0 HS

Contact Hours: 57

English 099: Cumulative Prep English

Description: English 099 is designed to help students develop the skills necessary for college reading and writing. Students will learn how to write critically, focus on writing and revision skills, and develop academic vocabulary. Revision is the heart of writing. No one is born a good writer; instead, good writers work hard and revise, revise, revise. Students can expect to write an extensive amount in this class, as well as being asked to read both fiction and nonfiction texts. The course is also designed to help students develop the skills necessary for college reading. Students will develop college level reading skills and critical thinking skills. Students will read, appreciate and interpret literature including novels, plays, short stories, poetry and essays. Students will utilize speaking and listening skills to prepare for college and the workplace.

Prerequisite: none

Designation: College Prep

Credit Type: English

Credits: 1.0 HS

Contact Hours: 57

Creative Writing I

Description: Creative Writing Level 1 is designed to introduce students to the fundamental concepts and techniques of creative writing across various genres. Through a combination of lectures, discussions, and writing exercises, students will explore different forms of creative expression and develop their skills as writers.

Prerequisite: none

Designation: College Prep

Credit Type: English

Credits: 0.50 HS

Contact Hours: 57

Creative Writing II

Description: Creative Writing Level 2 builds upon the foundational skills and knowledge acquired in Creative Writing Level 1, delving deeper into advanced techniques and strategies for crafting compelling and polished works of literature. Through a combination of workshops, readings, discussions, and critiques, students will refine their craft and develop a more sophisticated understanding of the creative writing process.

Prerequisite: none

Designation: College Prep

Credit Type: English

Credits: 0.50 HS

Contact Hours: 57

ENG 1021 – English Composition I

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. This is a statewide Guaranteed Transfer course in the GT-CO1 category.

Prerequisites: 1 high school level English course with a C or higher, 246+ writing Accuplacer score or grade waiver.

Designation: CCA
Contact Hours: 57

Credit Type: English

Credits: 3.0 college/ 1.0 HS

ENG 1022 – English Composition II

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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category.

Prerequisites: Successful completion of [ENG 1021](#) OR [ENG 1031](#) (grade C or better).

Designation: CCA

Credit Type: English

Credits: 3.0 college/ 1.0 HS

Contact Hours: 57

ENG 2021 – Creative Writing

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. This is a statewide Guaranteed Transfer course in the GT-CO1 category.

Prerequisites: ENG 099 (preferred) or other high school English course and qualifying assessment score WR 246+ or grade waiver

Designation: CCA

Credit Type: English

Credits: 3.0 college/ 1.0 HS

Contact Hours: 57

LIT 1015 – Introduction to Literature

Description: Introduces fiction, poetry, and drama. This course emphasizes active and responsive reading. This is a statewide Guaranteed Transfer course in the GT-AH2 category.

Prerequisites: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver

Designation: CCA

Credit Type: English

Credits: 3.0 college/ 1.0 HS

Contact Hours: 57

LIT 2046 – Literature of Women

Description: Examines the techniques and themes in literature of various genres by and about women by considering what it means for women to be in literature, as characters and also as authors. This is a statewide Guaranteed Transfer course in the GT-AH2 category.

Prerequisites: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver

Designation: CCA

Credit Type: English

Credits: 3.0 college/ 1.0 HS

Contact Hours: 57

LIT 2058 – Latinx Literature

Description: Examines the cultural, historical, and social contexts impacting Latinx identities through critical reading and analysis. This course focuses on significant works, including poetry, drama, and/or fiction, by Latinx authors.

Prerequisites: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver

Designation: CCA

Credit Type: English

Credits: 3.0 college/ 1.0 HS

Contact Hours: 57

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: ENG 099 preferred

Designation: CCA

Credit Type: English

Credits: 3.0 college/ 1.0 HS

Contact Hours: 57

COM 1250 – Interpersonal Communication

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. This is a statewide Guaranteed Transfer course in the GT-SS3 category.

Prerequisites: ENG 099 preferred

Designation: CCA

Credit Type: English

Credits: 3.0 college/ 1.0 HS

Contact Hours: 57

Math

MAT 090 Algebra I

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.

Prerequisite: none

Designation: College Prep

Credit Type: Math

Credits: 1.0 HS

Contact Hours: 57

MAT 090 Algebra I A

Description: High School Algebra 1 (Part A) is the first part of a comprehensive course designed to introduce students to fundamental algebraic concepts and techniques. Through a combination of theoretical lessons, problem-solving exercises, and practical applications, students will develop a solid foundation in algebraic skills necessary for success in higher-level mathematics courses and real-world problem-solving scenarios.

Prerequisite: none

Designation: College Prep

Credit Type: Math

Credits: 0.5 HS

Contact Hours: 57

MAT 090 Algebra I B

Description: High School Algebra 1 (Part B) continues the exploration of fundamental algebraic concepts introduced in Part A, focusing on more advanced topics and applications. Through interactive lessons, problem-solving activities, and real-world examples, students will deepen their understanding of algebraic principles and further develop their mathematical reasoning and problem-solving skills.

Prerequisite: none

Designation: College Prep

Credit Type: Math

Credits: 0.5 HS

Contact Hours: 57

Geometry

Description: Begin 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.

Prerequisite: none

Designation: College Prep

Credit Type: Math

Credits: 1.0 HS

Contact Hours: 57

MAT 099 Algebra II

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.

Prerequisite: none

Designation: College Prep

Credit Type: Math

Credits: 1.0 HS

Contact Hours: 57

MAT 1140 – Career Mathematics

Description: Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

Prerequisites: Qualifying assessment scores (Next Generation Accuplacer NGAR 200+, NGQA 200+, or NGAF 200+, Accuplacer EA 20+, SAT Math 200+). **Always concurrently enrolled in Robotics or UAS.**

Designation: CCA

Credit Type: Math

Credits: 3.0 college/ 1.0 HS

Contact Hours: 57

MAT 1260 – Statistics

Description: Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature.

Prerequisites: appropriate placement scores (ACTM 19+, S12 500+, Accuplacer Next Gen QA 240+, or other placement methods available at the time of registration)

Designation: CCA

Credit Type: Math

Credits: 3.0 college/ 1 HS

Contact Hours: 57

MAT 1340 – College Algebra

Description: Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on 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. This is a statewide Guaranteed Transfer course in the GT-MA1 category.

Prerequisites: appropriate placement scores (ACTM23+, S12 560+, Accuplacer Next Gen AF 245+ or other placement methods available at the time of registration).

Designation: CCA
Contact Hours: 57

Credit Type: Math

Credits: 4.0 college/ 1.5 HS

Science

Astronomy

Description Introduces you to the composition and structure of the universe. Astronomy is the scientific study of the contents of the entire Universe. This course will provide the student with a study of the universe and the conditions, properties, and motions of bodies in space. The content includes, but is not limited to, historical astronomy, astronomical instruments, the celestial sphere, the solar system, the earth as a system in space, the earth/moon system, the sun as a star, and stars.

Prerequisite: none

Designation: College Prep

Credit Type: Science

Credits: 0.50 HS

Contact Hours: 57

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 directly applicable to the Practical Nursing Program, Paramedic Program, and the Medical Office Technology program.

Prerequisite: Successful completion of Biology OR achieved at least 80% on the Biology Preassessment. Successful completion or current enrollment in 090 Math OR qualifying assessment score Next-Gen ACCUPLACER QAS 200+. Next-Gen ACCUPLACER WR 236+.

Designation: College Prep

Credit Type: Science

Credits: 1.0 HS

Contact Hours: 57

Biology with Lab A

Description: Biology is the study of life. It includes an introduction to the scientific method, cytology, genetics, botany, zoology, ecology, taxonomy, evolution, chemistry, and microbiology. In this course, we strive to understand the complex ways in which living organisms grow, interact and survive. We will examine organisms at all levels, all the way from the biosphere to microorganisms with a focus on scientific discovery and investigation. We aim to understand linkages across biological systems, and how living things depend on each other and are tied together at all levels.

Prerequisite: none

Designation: College Prep

Credit Type: Science

Credits: 0.50 HS

Contact Hours: 57

Biology with Lab B

Description: Biology w/ Lab B will continue building on the content and skills covered in Biology w/ Lab A. Students must successfully complete Biology w/ Lab A in order to enroll in this course.

Prerequisite: none

Designation: College Prep

Credit Type: Science

Credits: 0.50 HS

Contact Hours: 57

Chemistry with Lab A

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.

Prerequisite: none

Designation: College Prep

Credit Type: Science

Credits: 0.50 HS

Contact Hours: 57

Chemistry with Lab B

Description: Chemistry w/ Lab B will continue building on the content and skills covered in Chemistry w/ Lab A. Students must successfully complete Chemistry w/ Lab A in order to enroll in this course.

Prerequisite: none

Designation: College Prep

Credit Type: Science

Credits: 0.50 HS

Contact Hours: 57

Physics with Lab A

Description: Part 1 of this integrated Algebra 2 and Physics course blends mathematical concepts with real-world applications, fostering a deeper understanding of both subjects. Students will explore key Algebra 2 topics—such as quadratic functions, exponential and logarithmic relationships, and trigonometry—while applying them to fundamental physics principles, including motion, forces, energy, and waves. Emphasizing problem-solving, critical thinking, and inquiry-based learning, this course aligns with Colorado Academic Standards for Mathematics and Science, preparing students for advanced STEM coursework and practical applications in engineering, technology, and the natural world.

Prerequisite: Successful completion of Algebra 1 and can be enrolled concurrently in geometry.

Designation: College Prep

Credit Type: Science

Credits: 0.50 HS

Contact Hours: 57

Physics with Lab B

Description: Part 2 of this integrated Algebra 2 and Physics course blends mathematical concepts with real-world applications, fostering a deeper understanding of both subjects. Students will explore key Algebra 2 topics—such as quadratic functions, exponential and logarithmic relationships, and trigonometry—while applying them to fundamental physics principles, including motion, forces, energy, and waves. Emphasizing problem-solving, critical thinking, and inquiry-based learning, this course aligns with Colorado Academic Standards for Mathematics and Science, preparing students for advanced STEM coursework and practical applications in engineering, technology, and the natural world. Students may earn 1 math credit for Algebra II by successful completion (70% or higher) of the Algebra II final exam. Credit will be added to the transcript directly after passing the exam.

Prerequisite: completion of Physics A

Designation: College Prep

Credit Type: Science

Credits: 0.50 HS

Contact Hours: 57

Introduction to Health Sciences (HPR 1006- Customer Service in Healthcare)

Description: Introduction to Health Science provides the foundational knowledge and skills students need for careers in health care. Students begin by exploring the services, structure, and professions of the health care system. The remainder of the course focuses on day-to-day skills and expectations for health professionals, which include promoting wellness, maintaining a safe environment, creating medical records, and practicing good communication, collaboration, and leadership. Using real-life scenarios and application-driven activities, students learn the responsibilities and challenges of being health care professionals. In addition to building their understanding of technical concepts and skills, students evaluate the qualifications required for specific careers and develop personal career plans to pursue work in the health care industry. (Competencies from this course will be planned along with standards of science, allowing students to earn dual credit).

Prerequisite: none

Designation: College Prep

Credit Type: Science **Credits:** 2.0 college elective / 1.0 HS

Contact Hours: 46.5

Medical Terminology (HPR 1040)

Description: Provides an in-depth study of the structure of medical terms with emphasis on using and combining common prefixes, roots and suffixes. This course includes terms related to major body systems, oncology, and psychiatry as well as clinical laboratory and diagnostic procedures, and imaging, and provides accepted pronunciation of terms and relative use in the healthcare setting.

Prerequisite: Successful completion of Biology and HPR 1006 or HPR 1006 taken concurrently. Successful completion or current enrollment in 090 Math OR qualifying assessment score Next-Gen ACCUPLACER QAS 200+. Next-Gen ACCUPLACER WR 236+ or ENG 099.

Designation: College Prep; Level 3 **Credit Type:** Science **Credits:** 3.0 College Elective/ 1.0 HS

Contact Hours: 46.5

Phlebotomy

Description: Teaches the duties associated with the practice of venipuncture, capillary puncture, and special collection procedures. Students will have experience with quality control, infection control and safety procedures as well as laboratory computer systems. Students successfully completing this course may apply for a National Phlebotomy Registry Examination.

Prerequisite: Health Sciences, Anatomy and Physiology, HPR 1040 and HPR

Designation: **Credit Type:** Science **Credits:**

Contact Hours: 46.5

BIO 1005 – Science of Biology with Lab

Description: Examines the basis of biology in the modern world and surveys the current knowledge and conceptual framework of the discipline. Explores biology as a science, a process of gaining new knowledge, and the impact of biological science on society. This course includes a laboratory experience. Designed for non-science majors. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Prerequisite: Successful completion of ENG 1021 or appropriate placement score Accuplacer WR 246+.

Designation: College Prep
Contact Hours: 57

Credit Type: Science

Credits: 4.0 college / 1.50 HS

Social Science and Humanities

Civics

Description: Civics will include a review of the gears and elements of government in the United States and in Colorado and how it all works. Students will exercise critical thinking skills to research and develop their own positions on modern society, in order to be better prepared as voters and potential decision-makers in the future. In addition, students will analyze Supreme Court cases to gain a further understanding of how the highest court in the land makes decisions.

Prerequisite: None

Designation: College Prep

Credit Type: Social Science

Credits: 0.5 HS

Contact Hours: 57

Geography

Description: The purpose of this class is for students to gain the skills and insight of what makes up the various cultures all over the world. The study of each of these cultures will focus upon historical and present-day culture and geography, family life and structure, social organizations, attitude on education, religious beliefs and institutions, economic life, political trends, and the intellectual and artistic accomplishments of men and women within the culture. The study of the cultures will be supplemented by the development of reading, writing, research, geography, critical thinking, notetaking, and presentation skills.

Prerequisite: None

Designation: College Prep

Credit Type: Social Science

Credits: 0.5 HS

Contact Hours: 57

Early US History

Description: U.S. Early History is a semester long survey of American history from Early Exploration (1492) through the Civil War (1865). An emphasis will be placed on vocabulary, critical thinking skills, historical writing, and interpretation of original documents. Besides listening to traditional lectures on important themes in U.S. History, students are expected to participate in class through discussions, debates of key issues, and simulations. Furthermore, students are expected to continually develop their writing skills through regular short writing assignments, maintaining a notebook of all class handouts/materials, and completing assigned homework.

Prerequisite: None

Designation: College Prep

Credit Type: Social Science

Credits: 0.5 HS

Contact Hours: 57

Modern US History

Description: U.S. Modern History is a semester long survey of American history from Reconstruction (1865) through the War on Terror (2001). An emphasis will be placed on vocabulary, critical thinking skills, historical writing, and interpretation of original documents. Besides listening to traditional lectures on important themes in U.S. History, students are expected to participate in class through discussions, debates of key issues, and simulations. Furthermore, students are expected to continually develop their writing skills through regular short writing assignments,

maintaining a notebook of all class handouts/materials, and completing assigned homework.

Prerequisite: None

Designation: College Prep

Credit Type: Social Science **Credits:** 0.5 HS

Contact Hours: 57

Early World History

Description: Early World History is a semester long survey of the beginning of ancient civilizations to the Renaissance (1500). An emphasis will be placed on vocabulary, critical thinking skills, historical writing, and interpretation of original documents (DBQ's). Besides listening to traditional lectures on important themes in World History, students are expected to participate in class through discussions, small group interactions, and partner work. Furthermore, students are expected to continually develop their writing skills through regular short writing assignments and maintain a notebook of all class handouts and materials, and complete assigned homework

Prerequisite: None

Designation: College Prep

Credit Type: Social Science **Credits:** 0.5 HS

Contact Hours: 57

Modern World History

Description: Modern World History is a semester long survey of World History the Renaissance (1500) through World War II (1945). An emphasis will be placed on vocabulary, critical thinking skills, historical writing, and interpretation of original documents (DBQ's). Besides listening to traditional lectures on important themes in World History, students are expected to participate in class through discussions, small group interactions, and partner work. Furthermore, students are expected to continually develop their writing skills through regular short writing assignments and maintain a notebook of all class handouts and materials, and complete assigned homework.

Prerequisite: None

Designation: College Prep

Credit Type: Social Science **Credits:** 0.5 HS

Contact Hours: 57

Mythology & Folklore

Description: Mythology and Folklore is a course designed to explore ancient myths, legends, and folktales from around the world. Students will examine recurring themes, archetypes, and cultural significance while developing analytical, reading, and writing skills. The course will emphasize critical thinking, narrative writing, and comparative analysis of myths from different cultures. Students will create projects, essays, and presentations that reflect their understanding of mythology's role in shaping societies and literature.

Prerequisite: none

Designation: College Prep

Credit Type: Social Science **Credits:** 0.5 High School

Contact Hours: 57

20th Century History

Description: The 20th Century History course aims to provide high school students with a comprehensive understanding of the significant events, movements, and figures that shaped the world in the past century. This course explores the political, social, economic, and cultural developments that defined the 20th century, with a focus on global perspectives and their implications for contemporary society. Through a combination of lectures, discussions, readings, multimedia resources, and interactive activities, students will analyze key historical events and

their impact on various regions and populations.

Prerequisite: None

Designation: College Prep

Credit Type: Social Science **Credits:** 0.5 HS

Contact Hours: 57

Western Civilization

Description: The Western Civilization course offers high school students an in-depth exploration of the history, culture, and contributions of Western societies from ancient times to the modern era. Through a chronological approach, students will examine the major events, movements, and ideas that have shaped Western civilization, focusing on key developments in politics, religion, philosophy, art, and science. By engaging with primary sources, scholarly readings, and multimedia materials, students will develop critical thinking skills and a nuanced understanding of the complexities of Western history.

Prerequisite: None

Designation: College Prep

Credit Type: Social Science **Credits:** 0.5 HS

Contact Hours: 57

CRJ 1010 - Introduction to Criminal Justice

Description: Introduces students to the basic components of the criminal justice system in the United States. Concepts of crime, crime data, victimization, perspectives and views of crime, theory, and law are discussed. Particular attention to the criminal justice process, interaction and conflict between criminal justice agencies, and current criminal justice issues are examined. This is a statewide Guaranteed Transfer course in the GT-SS3 category.

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver

Designation: CCA

Credit Type: Social Science **Credits:** 3.0 college / 1.0 HS

Contact Hours: 57

ECO 2001 – Principles of Macroeconomics

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.

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver

Designation: CCA

Credit Type: Social Science **Credits:** 3.0 college / 1.0 HS

Contact Hours: 57

ECO 2002 – Principles of Microeconomics

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. This is a statewide Guaranteed Transfer course in the GT-SS1 category.

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver
Designation: CCA **Credit Type:** Social Science **Credits:** 3.0 college / 1.0 HS
Contact Hours: 57

GEO 1006 - Human Geography

Description: Introduces students to geographic perspectives and methods in the study of human societies by examining the spatial characteristics of populations, language, religion, ethnicity, politics, and economics. Examines the relationships between physical environments and human societies.

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver
Designation: CCA **Credit Type:** Social Science **Credits:** 3.0 college / 1.0 HS
Contact Hours: 57

HIS 1120 – The World: 1500 - Present

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. This is a statewide Guaranteed Transfer course in the GT-HI1 category.

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver
Designation: CCA **Credit Type:** Social Science **Credits:** 3.0 college / 1.0 HS
Contact Hours: 57

HIS 1220 – US History Since Civil War

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

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver
Designation: CCA **Credit Type:** Social Science **Credits:** 3.0 college / 1.0 HS
Contact Hours: 57

PHI 1011 – Introduction to Philosophy

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.

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver
Designation: CCA **Credit Type:** Humanities **Credits:** 3.0 college / 1.0 HS
Contact Hours: 57

PSC 1025 – American State & Local Government

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.

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver

Designation: CCA **Credit Type:** Social Science **Credits:** 3.0 college / 1.0 HS
Contact Hours: 57

PSC 2005 – International Relations

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.

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver

Designation: CCA **Credit Type:** Social Science **Credits:** 3.0 college / 1.0 HS
Contact Hours: 57

PSC 2020 – Introduction to Political Science

Description: Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and non-democratic governments and processes, and international relations.

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver

Designation: CCA **Credit Type:** Social Science **Credits:** 3.0 college / 1.0 HS
Contact Hours: 57

PSY 1001 – General Psychology I

Description: This course focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category.

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver

Designation: CCA **Credit Type:** Social Science **Credits:** 3.0 college / 1.0 HS
Contact Hours: 57

PSY 1002 – General Psychology II

Description: This course 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.

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver

Designation: CCA **Credit Type:** Social Science **Credits:** 3.0 college / 1.0 HS
Contact Hours: 57

PSY 2440 – Human Growth and Development

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

Prerequisite: PSY 1001 or 1002 (preferred)

Designation: CCA **Credit Type:** Social Science **Credits:** 3.0 college / 1.0 HS
Contact Hours: 57

PSY 2552– Human Growth and Development

Description: This course examines psychopathology and its classification, causes, treatment, and prevention.

Prerequisite: PSY 1001 or 1002 (Recommended)

Designation: CCA **Credit Type:** Social Science **Credits:** 3.0 college / 1.0 HS

Contact Hours: 57

SOC 1001 – Introduction to Sociology I

Description: This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures.

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver

Designation: CCA **Credit Type:** Social Science **Credits:** 3.0 college / 1.0 HS

Contact Hours: 57

SOC 2018 – Sociology of Diversity

Description: This course explores differences based on race, ethnicity, social class, gender, age, ability status, and sexual identity. Critically examines the dynamics of intergroup relations and how social construction of these differences can lead to patterns of prejudice, discrimination, and inequality nationally and globally.

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver

Designation: CCA **Credit Type:** Social Science **Credits:** 3.0 college / 1.0 HS

Contact Hours: 57

SOC 2031 – Sociology of Deviant Behavior

Description: This course critically examines various deviant categories and societal reactions to deviance affecting diverse populations. Examines how sociologists study deviance and the theories they use to explain it. Explains the ways social institutions define deviance and attempt to control, change, or treat those deviant behaviors, attitudes, and conditions.

Prerequisite: ENG 099 (preferred) and qualifying assessment score WR 246+ or grade waiver

Designation: CCA **Credit Type:** Social Science **Credits:** 3.0 college / 1.0 HS

Contact Hours: 57

Career & Technical Education

Aviation

Introduction to Aviation & Aerospace (applied math I)

Description: This course will introduce the aviation and aerospace industry and provide an

entry level examination of Aviation career opportunities. Students will explore the concepts and principles of Aviation and delve into general practices of the aerospace field. Areas of study are aviation history, pilot training, airplane structure, engines, basic aerodynamics, flight environment, airports, aviation weather, and navigation. In addition, the course exposes the student to the history of manned space flight. (Competencies from this course will be planned along with standards of Math 090, allowing students to earn dual credit).

Prerequisite: none

Designation: College Prep
elective high school credit

Credit Type: math & elective **Credits:** 0.50 each math &

Contact Hours: 57

AES 1400 – Aviation Weather (applied math II)

Description: The student will be introduced to basic meteorological concepts that apply to aviation. The emphasis is on the use of National Weather Service reports and forecasts to evaluate flight conditions. Preparation is provided to the student for the weather section of the FAA Private Pilot Knowledge examination.

Prerequisite: Introduction to Aviation

Designation: College Prep
elective high school credit

Credit Type: math & elective **Credits:** 0.50 each math &

Contact Hours: 57

AES 1040 – Introduction to Unmanned Aircraft Systems

Description: This course will cover advanced flight topics from area Aviation experts. Students will be exposed to new concepts in UAS and drone technology as well as expanding topics covered in Aviation I to an advanced level. This course will also cover material designed for career and technical students who need to study mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications. (Competencies from this course will be planned along with standards of MAT-1140, allowing students to earn dual credit).

Prerequisite: Successful completion of Aviation Weather AND qualifying assessment scores Next-Gen ACCUPLACER AR 200+, QAS 200+, or AAF 200+, SAT Math 200+.

Designation: College Prep
elective high school credit

Credit Type: math & elective **Credits:** 1.0 math & 0.50

Contact Hours: 57

AES 1100 Aviation Fundamentals:

Description: The student is introduced to the fundamentals of aviation which includes a study of the airplane and its components, aerodynamics, basic aircraft systems, the airport environment, air-traffic control procedures, Federal Aviation Regulations, the basic elements of air navigation including radio navigation, and a review of aviation weather. It prepares the student for the Federal Aviation Administration (FAA) Private Pilot Knowledge examination.

Prerequisite: Completion of UAS Drone Technology

Designation: College Prep
credit

Credit Type: elective **Credits:** 1.0 elective high school

Contact Hours: 57

Behavioral Health

BEH 1001: Mental Health Crisis and Intervention

Description: Focuses on the skills necessary to recognize and assess warning signs of mental health distress and crisis intervention through evidence-based practices. This course also emphasizes trauma-informed care, non-violent crisis intervention, and interventions for diverse populations. This course will prioritize preparation for becoming a compassionate and skilled crisis interventionist.

Prerequisite: None

Designation: College Prep
school credit

Credit Type: elective **Credits:** 3.0 College/1.0 elective high

Contact Hours: 57

PTE 1010: Intro to Behavioral Health Care and Wellness

Description: Explores basic principles of behavioral health and wellness care in behavioral health settings. This course develops interpersonal and technical skills while working with clients in psychiatric care settings.

Prerequisite: None

Designation: College Prep
school credit

Credit Type: elective **Credits:** 3.0 College/1.0 elective high

Contact Hours: 57

SWK 1000: Intro to Social Work

Description: Introduces students to the philosophy of the social work profession including the knowledge, values, ethics, roles and skills inherent to generalist social work.

Prerequisite: None

Designation: College Prep
school credit

Credit Type: elective **Credits:** 3.0 College/1.0 elective high

Contact Hours: 57

Computer Science

Digital Literacy

Description: High School Digital Literacy is a comprehensive course designed to equip students with the essential skills and knowledge necessary to navigate the digital world effectively, critically, and ethically. In an increasingly interconnected and technology-driven society, digital literacy is essential for success in academic, professional, and personal contexts. Through a combination of theoretical concepts, hands-on activities, and practical applications, students will learn to harness the power of technology responsibly, evaluate digital information critically, and engage in ethical digital practices.

Prerequisite: none

Designation: College Prep
Contact Hours: 57

Credit Type: elective **Credits:** 0.50 High School

Certification Lab

Description: This self-paced course provides students with the opportunity to earn industry-recognized certifications in their chosen field. Students will have access to resources and support as they work independently to complete certifications in Adobe, QuickBooks, Booking Professionals, Microsoft Certified Fundamentals, or Unity User Programmer. This flexible learning environment allows students to develop valuable technical skills at their own pace, preparing them for future academic and career opportunities.

Prerequisite: none

Designation: College Prep

Credit Type: elective **Credits:** 0.50 High School

Contact Hours: 57

Networking

Description: Networking Fundamentals introduces students to core networking concepts and practical skills essential for managing and troubleshooting networks in small to medium-sized business environments. This course covers foundational topics such as network types (internet, intranet, extranet), client-server and peer-to-peer models, and various transmission types. Students will explore key components of network infrastructure, including LANs, WANs, and wireless networking methods, as well as critical cloud and virtualization concepts. Digital Literacy.

Prerequisite: none

Designation: College Prep

Credit Type: elective **Credits:** 0.50 High School

Contact Hours: 57

Network Security

Description: **Network Security** provides students with the foundational knowledge and hands-on skills needed to secure networks, systems, and data against cyber threats. This course covers essential security concepts, including encryption methods, firewalls, intrusion detection and prevention systems (IDS/IPS), and network isolation techniques. Students will learn to identify and mitigate security risks using best practices in authentication, access control, and secure network design.

Prerequisite: none

Designation: College Prep

Credit Type: elective **Credits:** 0.50 High School

Contact Hours: 57

Device Configuration and Management

Description: Device Configuration and Management course equips candidates with the fundamental knowledge and hands-on skills needed to operate and troubleshoot Windows 10 and Windows 11 devices in a business environment

Prerequisite: none

Designation: College Prep

Credit Type: elective **Credits:** 0.50 High School

Contact Hours: 57

Microsoft 365 Fundamentals

Description: This course provides students with a foundational understanding of cloud services, with a focus on the Software as a Service (SaaS) cloud model and Microsoft 365 offerings. Students

will explore the considerations and benefits of adopting cloud-based solutions, as well as the available Microsoft 365 service options.

Prerequisite: none

Designation: College Prep

Credit Type: elective **Credits:** 0.50 High School

Contact Hours: 57

Microsoft Applications

Description: Students will participate in self-paced courses to earn Microsoft Office certifications, including Word, Excel, PowerPoint, and Access. To fulfill the graduation requirement, students must complete three out of the four certifications.

Prerequisite: none

Designation: College Prep

Credit Type: elective **Credits:** 0.5 High School

Contact Hours: 57

Unity Certified User

Description: This course prepares students for the Unity Certified User certification by providing hands-on experience in game development, C# programming, and the Unity platform. Through a combination of structured coursework, interactive projects, and self-paced learning resources, students will develop the skills needed to create both 2D and 3D games.

Prerequisite: none

Designation: College Prep

Credit Type: elective **Credits:** 0.5 High School

Contact Hours: 57

Construction

Principles of Construction

Description: Principles of Construction introduces students to the foundational skills and knowledge needed for a successful career in residential construction. This course covers the first part of the PACT Core curriculum, emphasizing safety, essential math skills, tool and material familiarization, and employability skills. Students will learn safe working practices, including proper tool usage and hazard identification, and will gain practical experience in basic first aid. The course also covers fundamental construction math, including calculations with whole numbers, fractions, decimals, and measurements, as well as an introduction to print reading. Students will explore a variety of hand and power tools, learning their proper use, care, and maintenance, and will become familiar with common construction materials. Finally, the Career Wiz component focuses on preparing students for the workforce by developing essential job search skills, including resume creation, interviewing techniques, and workplace professionalism.

Prerequisite: none

Designation: College Prep

Credit Type: elective **Credits:** 0.50 Elective

Contact Hours: 57

Carpentry

Description: Carpentry provides students with the fundamental skills and knowledge necessary for a career in residential carpentry. This course covers key aspects of the PACT curriculum, including tool identification and usage, lumber selection, measurement techniques, and construction methods. Students will gain hands-on experience in framing, shingling, concrete forms, and installing exterior and interior doors, windows, siding, trim, and insulation. Additionally, the course introduces essential repair techniques and emphasizes safety, precision, and craftsmanship. Through practical application and real-world projects, students will develop the technical skills and problem-solving abilities needed for success in the carpentry trade.

Prerequisite: Principles of Construction

Designation: College Prep

Credit Type: elective **Credits:** 1.0 Elective

Contact Hours: 114

Electrical Wiring

Description: Electrical Wiring introduces students to the fundamental skills and knowledge required for a career in residential electrical work. This course covers essential topics from the PACT curriculum, including electrical safety, an introduction to the National Electrical Code (NEC), and the identification and proper use of electrical tools and materials. Students will learn basic electrical formulas, circuit installation, and the proper wiring of switches and outlets. Additionally, the course provides hands-on experience in equipment testing and troubleshooting, emphasizing precision, safety, and adherence to industry standards. Through practical application, students will develop the technical skills and problem-solving abilities necessary for success in the electrical trade.

Prerequisite: Principles of Construction

Designation: College Prep

Credit Type: elective **Credits:** 1.0 Elective

Contact Hours: 114

Culinary

ServSafe I

Description: ServSafe Level 1 Food Handler provides an introduction to food safety and handling best practices. Students will learn about preventing foodborne illnesses, proper hygiene, temperature control, cross-contamination prevention, cleaning and sanitizing procedures, pest control, and food safety regulations. This course prepares students to take the ServSafe Manager exam and apply these essential principles in a food service environment.

Prerequisite: none

Designation: College Prep

Credit Type: elective **Credits:** 0.50 Elective

Contact Hours: 57

ServSafe II

Description: ServSafe Level II Food Safety Management builds upon the ServSafe Manager certification, focusing on the practical application of food safety principles within a school cafeteria setting. Students will learn how to implement and manage a comprehensive food safety program, addressing topics such as staff training, risk assessment, inventory management, HACCP plan development and implementation, and regulatory compliance specific to school food service operations. This course provides students with the skills and knowledge to effectively oversee food safety practices and ensure a safe dining environment for students and staff.

Prerequisite:

Designation: College Prep

Credit Type: elective **Credits:** 0.50 Elective

Contact Hours: 57

Engineering

Intro to Engineering (Applied Math I)

Description: Through both individual and collaborative team activities, projects, and problems, students will solve problems as they practice common engineering design and development protocols such as project management and peer review. Students will develop skill in technical representation and documentation of design solutions according to accepted technical standards, and they will use current 3D design and modeling software to represent and communicate solutions. In addition, the development of computational methods that are commonly used in engineering problem solving, including statistical analysis and mathematical modeling, are emphasized. Ethical issues related to professional practice and product development are also presented. (Competencies from this course will be planned along with standards of Math 090, allowing students to earn dual credit).

Prerequisite: none

Designation: College Prep
elective high school credit

Credit Type: math & elective **Credits:** 0.50 each math &

Contact Hours: 57

Digital Electronics (Applied Math II)

Description: Digital Electronics is intended to provide students with an introduction to the basic components of digital electronic systems and equip them with the ability to use these components to design more complex digital systems. Proficient students will be able to (1) describe basic functions of digital components (including gates, flip flops, counters, and other devices upon which larger systems are designed), (2) use these devices as building blocks to design larger, more complex circuits, (3) implement these circuits using programmable devices, and (4) effectively communicate designs and systems. Students develop additional skill in technical documentation when operating and troubleshooting circuits. Upon completion of the Digital Electronics course, students will be able to design a complex digital system and communicate their designs. (Competencies from this course will be planned along with standards of Math 099, allowing students to earn dual credit).

Prerequisite: : Successful completion of Introduction to Engineering (preferred).

Designation: College Prep
elective high school credit

Credit Type: math & elective **Credits:** 0.50 each math &

Contact Hours: 57

Robotics (MAT 1140 – Career Math)

Description: Robotics & Automated Systems is an applied course for students who wish to explore how robots and automated systems are used in the industry. Upon completion of this course, students will have an understanding of the historical and current uses of robots

and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems. This class also covers material designed for career and technical students who need to study mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications. (Competencies from this course EGG-106 will be planned along with standards of MAT-1140, allowing students to earn dual credit).

Prerequisite: Successful completion of Digital Electronics AND qualifying assessment scores Next-Gen ACCUPLACER AR 200+, QAS 200+, or AAF 200+, SAT Math 200+.

Designation: College Prep **Credit Type:** math & elective **Credits:** .5 elective & 1.0 math high school credit

Contact Hours: 57

Work Based Learning Engineering & Technology

Description: Students will employ engineering and scientific concepts in the solution of engineering design problems. In addition, students will use SOLIDWORKS to help them design solutions to solve proposed problems. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges that increase in difficulty throughout the course. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

Prerequisite: C or higher in Robotics

Designation: College Prep **Credit Type:** elective **Credits:** 1.0 High School credits

Contact Hours: 57

Business

Concepts of Entrepreneurship

Description: Students will identify the fundamentals of business creation, the personal attributes needed to be a successful entrepreneur and will research various business opportunities. Topics covered include the characteristics of an entrepreneur, discovering entrepreneurial opportunities, and researching and analyzing domestic, global and market trends.

Prerequisite: None

Designation: College Prep; Level 1 **Credit Type:** Elective **Credits:** 1.0 HS

Contact Hours: 57

Fundamental Marketing Concepts

Description: Students will gain a comprehensive understanding of the fundamentals of marketing – what markets are, how to segment them, how to create a value proposition and a positioning statement. The class will explore the characteristics and fundamental concepts of marketing and present strategies and techniques.

Prerequisite: None

Designation: College Prep; Level 1 **Credit Type:** Elective **Credits:** 1.0 HS

Contact Hours: 57

Health Science

HPR 1000 – Intro to Health

Description: Provides foundational knowledge and skills necessary for careers in health care. This course covers basic health skills such as vital signs, hand washing, and Cardiopulmonary Resuscitation (CPR).

Prerequisite: None

Designation: College Prep; Level 1 **Credit Type:** Elective **Credits:** 3.0 College Elective/ 1.0 HS

Contact Hours: 46.5

HPR 1038 – Intro to Medical Terminology

Description: Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes.

Prerequisite: None

Designation: College Prep; Level 1 **Credit Type:** Elective **Credits:** 1.0 College Elective/ .5 HS

Contact Hours: 15

Introduction to Health Sciences (HPR 1006 - Customer Service in Healthcare & HPR 1007 Computers in Healthcare)

Description: Introduction to Health Science provides the foundational knowledge and skills students need for careers in health care. Students begin by exploring the services, structure, and professions of the health care system. The remainder of the course focuses on day-to-day skills and expectations for health professionals, which include promoting wellness, maintaining a safe environment, creating medical records, and practicing good communication, collaboration, and leadership. Using real-life scenarios and application-driven activities, students learn the responsibilities and challenges of being health care professionals. In addition to building their understanding of technical concepts and skills, students evaluate the qualifications required for specific careers and develop personal career plans to pursue work in the health care industry. (Competencies from this course will be planned along with standards of science, allowing students to earn dual credit).

Prerequisite: none

Designation: College Prep **Credit Type:** Science & elective **Credits:** 4.0 college elective / 1.0 HS science & .5 HS elective

Contact Hours: 46.5

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 directly applicable to the Practical Nursing Program, Paramedic Program, and the Medical Office Technology program.

Prerequisite: Successful completion of Biology OR achieved at least 80% on the Biology Preassessment. Successful completion or current enrollment in 090 Math OR qualifying assessment score Next-Gen ACCUPLACER QAS 200+. Next-Gen ACCUPLACER WR 236+.

Designation: College Prep

Credit Type: Science

Credits: 1.0 HS

Contact Hours: 57

HPR 1040 - Medical Terminology

Description: Provides an in-depth study of the structure of medical terms with emphasis on using and combining common prefixes, roots and suffixes. This course includes terms related to major body systems, oncology, and psychiatry as well as clinical laboratory and diagnostic procedures, and imaging, and provides accepted pronunciation of terms and relative use in the healthcare setting.

Prerequisite: Successful completion of Biology and HPR 1006 or HPR 1006 taken concurrently. Successful completion or current enrollment in 090 Math OR qualifying assessment score Next-Gen ACCUPLACER QAS 200+. Next-Gen ACCUPLACER WR 236+ or ENG 099.

Designation: College Prep; Level 3 **Credit Type:** Science **Credits:** 3.0 College Elective/ 1.0 HS

Contact Hours: 46.5

HPR 1008 – Law & Ethics for Healthcare Professionals

Description: Introduces student to the study and application medico-legal concepts in medical careers. This course seeks to establish a foundation for ethical behavior and decision making in health professions.

Prerequisite: Successful completion of Biology and HPR 1060 or HPR 1060 taken concurrently. Successful completion or current enrollment in 090 Math OR qualifying assessment score Next-Gen ACCUPLACER QAS 200+. Next-Gen ACCUPLACER WR 236+ or completion of ENG 099.

Designation: College Prep; Level 4 **Credit Type:** Science **Credits:** 2.0 College Elective/ 0.5 HS

Contact Hours: 46.5

HPR 1020 - Phlebotomy

Description: Teaches the duties associated with the practice of venipuncture, capillary puncture, and special collection procedures. Students will have experience with quality control, infection control and safety procedures as well as laboratory computer systems. Students successfully completing this course may apply for a National Phlebotomy Registry Examination.

Prerequisite: Completion of Health Science Courses above

Designation: College Prep; Level 4 **Credit Type:** Science **Credits:** 2.0 College Elective/ 0.5 HS

Contact Hours: 46.5

Electives

Business

BUS 1015 Introduction to Business

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.

Prerequisite: none

Designation: CCA

Credit Type: elective **Credits:** 3.0 college/ 1.0 High School

Contact Hours: 57

BUS 2017- Business Communication & Report Writing

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.

Prerequisite: none

Designation: CCA

Credit Type: elective **Credits:** 3.0 college/ 1.0 High School

Contact Hours: 57

Enrichment

Advisory

Description: This course is required for all 9th grade students during the SEL block, and optional for upper grade levels. This course is designed to help students develop strategies and skills necessary for a successful student experience at CECA. Topics include time management, organization, study skills, communication skills, using on-campus support services, social and emotional wellbeing, and college exploration. During the course, students will use critical thinking skills to make informed choices, to understand their responsibilities for academic success, and to become independent, motivated learner.

Prerequisite: none

Designation: CCA

Credit Type: elective **Credits:** 0.25 High School

Contact Hours: 15.5 hours

Enrichment

Description: This course is required for all 9th grade students, and optional for upper grade levels. The Enrichment course provides high school students with the opportunity to explore a wide range of topics based on their personal interests, allowing for a flexible and student-centered learning experience. Through independent projects, collaborative work, guest speakers, and hands-on activities, students can delve into subjects such as creative arts, technology, cultural studies, personal finance, and wellness. The course encourages self-directed learning, critical thinking, and creativity, helping students discover new passions and develop skills that will benefit them in their future educational and career endeavors.

Prerequisite: none

Designation: CCA

Credit Type: elective **Credits:** 0.25 High School

Contact Hours: 15.5 hours

Study Hall

Description: This course is required for all 9th grade students. The course is designed for students to have time to complete schoolwork during the school day in a structured, supportive environment.

Prerequisite: none

Designation: CCA

Credit Type: elective **Credits:** 0.25 High School

Contact Hours: 57 hours

Fine Arts

2D Studio Art

Description: Students learn about color, layout, perspective, and balance: all techniques that are necessary in presentations (both visual and digital) of academic work. Art has the ability to reach students who might not be engaged in classwork as well as providing challenges for learners at all levels. This class introduces the hands-on experience with the visual arts, including media, processes, techniques, traditions, and terminology. Drawing, painting, sculpture and media will all be explored. Students will use the design cycle (developing ideas, creating the solution, evaluating, and inquiring & analyzing) to shape their art.

Prerequisite: none

Designation: College Prep

Credit Type: elective **Credits:** 0.50 High School

Contact Hours: 57

3D Studio Art

Description: As a 3D Design class students will be learning about and creating sculptural art works. Students will utilize drawing, individual and group inquiry and discussion, media experimentation and application in the planning, construction and self-evaluation stages of their sculptures.

Prerequisite: none

Designation: College Prep

Credit Type: elective **Credits:** 0.50 High School

Contact Hours: 57

ART 1201 – Drawing I

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

Prerequisite: none

Designation: CCA

Credit Type: elective **Credits:** 3.0 college / 1.0 High School

Contact Hours: 57

ART 1202 – Drawing II

Description: Explores expressive drawing techniques with an emphasis on formal composition, color media and content or thematic development.

Prerequisite: Successful completion of [ART 1201](#) (grade C or higher).

Designation: CCA

Credit Type: elective **Credits:** 3.0 college / 1.0 High School

Contact Hours: 57

ART 1301 – Painting I

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.

Prerequisite: none

Designation: CCA
Contact Hours: 57

Credit Type: elective **Credits:** 3.0 college / 1.0 High School

ART 1703 – Ceramics I

Description: Introduces traditional and contemporary approaches to ceramic form and processes, with an emphasis on hand building techniques, and a basic introduction to the potter's wheel. This course includes basic surface design, glaze, and kiln firing procedures.

Prerequisite: none

Designation: CCA

Credit Type: elective **Credits:** 3.0 college / 1.0 High School

Contact Hours: 57

Acting I

Description: Acting One is an introduction to the craft of acting and the foundation for all performances. The course will consist of group exercises that will develop physical awareness, concentration, imagination and trust. We will explore basic physical, vocal and analytical concepts; methods; vocabulary; and acting disciplines. Students will develop personalized creative processes through monologues, scene work, and exercises in observational awareness.

Prerequisite: none

Designation: College Prep

Credit Type: elective **Credits:** 0.5 High School

Contact Hours: 57

Acting II

Description: Acting II is designed to broaden, improve and enhance the skills learned in Acting I through further character study, scene analysis, improvisation, and physical techniques. This course will challenge students to sharpen skills in concentration, imagination, and total engagement. This course will dive deeper into character building, physicality, improvisation, and other acting disciplines. Students will develop these attributes with monologues, scene work, and improvisation exercises.

Prerequisite: completion of Acting I

Designation: College Prep

Credit Type: elective **Credits:** 0.5 High School

Contact Hours: 57

Theater I

Description: This course introduces students to the theatrical arts. We will utilize and emphasize creativity, collaboration, and perseverance. We will cover theatre vocabulary, the variety of theatre roles, movement, acting, the reading and performing of plays and viewing theatre performances. This course is designed to give students an overview of theatre arts with an emphasis on performance.

Prerequisite: none

Designation: College Prep

Credit Type: elective **Credits:** 0.5 High School

Contact Hours: 57

Theater II

Description: This course introduces students to the theatrical arts. We will utilize and emphasize creativity, collaboration, and perseverance. We will cover theatre vocabulary, the variety of theatre roles, movement, acting, the reading and performing of plays and viewing

theatre performances. This course is designed to give students an overview of theatre arts with an emphasis on performance.

Prerequisite: none

Designation: College Prep **Credit Type:** elective **Credits:** 0.5 High School

Contact Hours: 57

Journalism

Description: Students will learn about different types of journalism and how laws and ethics play into journalism. While learning about the ins and outs of journalism, students will create their own articles about events in the school and community. The class will work together throughout the year to create a yearbook. Students in good standing (academics and behavior) will be trusted with taking photographs and conducting interviews.

Prerequisite: none

Designation: College Prep **Credit Type:** elective **Credits:** 0.5 High School

Contact Hours: 57

World Language

Spanish I

Description: Spanish I is an entry-level high school foreign language course that explores the Spanish language through communication, culture, connections, comparisons, and communities. Course materials are designed to support students as they work to gain basic proficiency in speaking, listening, reading, writing, and cultural competency.

Prerequisite: none

Designation: College Prep **Credit Type:** elective **Credits:** 1.0 High School

Contact Hours: 57

Spanish II

Description: Spanish 2 furthers the study of grammar, vocabulary and cultures of Spanish-speaking countries. Students improve listening, speaking, reading and writing skills. Students begin to develop reading comprehension skills through literature.

Prerequisite: C or higher in Spanish I

Designation: College Prep **Credit Type:** elective **Credits:** 1.0 High School

Contact Hours: 57

Spanish for Heritage Speakers I

Description: The purpose of this course is to enable students whose heritage language is Spanish to develop, maintain, and enhance proficiency in Spanish by providing them the opportunity to listen, speak, read, and write in a variety of contexts and for a variety of audiences including the family, school, and the community.

Prerequisite:

Designation: College Prep **Credit Type:** elective **Credits:** 1.0 High School

Contact Hours: 57

Spanish for Heritage Speakers II

Description: This course focuses on the development of advanced communicative competence in reading, writing, speaking and listening and viewing, as well as on understanding Hispanic cultures and issues of identity of heritage speakers of Spanish in the United States. Students will also continue to develop awareness and understanding of Hispanic cultures, including language variation, customs, geography, history, and current events.

Prerequisite: C or higher in Heritage Spanish I

Designation: College Prep **Credit Type:** elective **Credits:** 1.0 High School

Contact Hours: 57

Spanish for Heritage Speakers III

Description: High School Spanish for Heritage Speakers Level 3 is designed to further develop the language proficiency of students who have a background in Spanish but may have limited formal instruction. This course aims to strengthen students' reading, writing, speaking, and listening skills in Spanish while deepening their understanding of Hispanic cultures and heritage. Through a variety of authentic materials, literary texts, and cultural activities, students will engage with the language in meaningful contexts and explore their linguistic and cultural identities.

Prerequisite: C or higher in Heritage Spanish II

Designation: College Prep **Credit Type:** elective **Credits:** 1.0 High School

Contact Hours: 57

Spanish for Heritage Speakers IV

Description: High School Spanish for Heritage Speakers Level 4 is an advanced course designed to refine and expand the language skills of heritage speakers of Spanish. Building upon the foundation established in previous levels, this course emphasizes advanced linguistic proficiency, cultural exploration, and critical analysis of Spanish-language texts. Through authentic materials, literary works, multimedia resources, and interactive activities, students will deepen their understanding of Hispanic cultures and strengthen their language abilities for academic, professional, and personal purposes.

Prerequisite: C or higher in Heritage Spanish III

Designation: College Prep **Credit Type:** elective **Credits:** 1.0 High School

Contact Hours: 57

Spanish Literature I

Description: High School Spanish Literature 1 is an introductory course that explores the rich literary traditions of the Spanish-speaking world. Through the study of representative works of literature from various genres, periods, and regions, students will develop an appreciation for the diversity and complexity of Hispanic literary expression. This course will emphasize critical reading, literary analysis, cultural context, and the exploration of universal themes and human experiences.

Prerequisite: C or higher in Heritage Spanish II

Designation: College Prep **Credit Type:** elective **Credits:** 1.0 High School

Contact Hours: 57

Spanish Literature II

Description: High School Spanish Literature 2 is an advanced course that builds upon the foundation established in Spanish Literature 1, delving deeper into the exploration of literary works from the Spanish-speaking world. Through the study of masterpieces of literature, students will

engage with complex themes, styles, and literary techniques while developing critical thinking, analytical, and interpretive skills. This course will foster a deeper understanding and appreciation of Hispanic literary traditions and their cultural significance.

Prerequisite: C or higher in Spanish Literature I

Designation: College Prep **Credit Type:** elective **Credits:** 1.0 High School

Contact Hours: 57

Postsecondary & Workforce Readiness

Career Explorations

Description: Career exploration aims to expose students to a broad range of career fields ultimately increasing the student's knowledge of career options. The class will take field trips, do job shadowing, and meet with industry leaders to gain real world perspective on careers identified by students. In this class students are empowered to uncover their skills, talents and interests to develop their own individualized post-secondary pathways.

Prerequisite: Designed for students in grades 9 & 10

Designation: College Prep **Credit Type:** elective **Credits:** 0.50 High School

College & Career 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.

Prerequisite: Designed for students in grades 10 and above

Designation: College Prep **Credit Type:** elective **Credits:** 1.0 High School

General Electives

PCPW08 Work-Based Learning

Description: Internships, Paid Work, On the Job Training, or Apprenticeships that align with ICAP goal. Students must complete a minimum of 60 hours of work experience within the semester. Students are required to meet weekly with the WBL Coordinator and submit the number of hours worked each week.

Prerequisite: Designed for students in grades 10 and above

Designation: College Prep **Credit Type:** elective **Credits:** 0.50 for 60 hours or 1.0 for 120 hours of work experience

Contact Hours: 57

PELS36 Capstone

Course Description: This course is for students developing a Capstone Project, a multifaceted body of work that is school determined and serves as a culminating academic and intellectual experience for students. Capstone projects could include a portfolio of the student's best work –curriculum or research-based; feature a set of experiments organized around a central problem; and/or showcase a community service project or learning activity. Must be approved by Head of School.

Prerequisite: none

Designation: College Prep **Credit Type:** elective **Credits:** 0.50 credits

Contact Hours: 57

PINI02 Independent Study

Course Description: Independent study allows the student to explore a topic of interest under the close supervision of a faculty or staff member. The course may include directed readings, pursuing an industry certification, applied work, assisting an instructor with a research project, carrying out an independent research project, or other activities deemed appropriate. Must be approved by Head of School.

Prerequisite: Designed for students in grades 10 and above

Designation: College Prep **Credit Type:** elective **Credits:** 0.50 credits

Contact Hours: 57

Student Support Services

English Language Development I

Description: This course is designed for students who are beginning their journey in learning English. It focuses on developing foundational skills in listening, speaking, reading, and writing. Students will learn essential vocabulary, basic sentence structures, and simple grammar rules. Through interactive activities, real-life scenarios, and engaging exercises, learners will gain confidence in using English for everyday communication.

Prerequisite: none

Designation: College Prep **Credit Type:** elective **Credits:** 0.5 High School

Contact Hours: 57

English Language Development II

Description: Level Two English Language Development is designed for students who have a basic understanding of English and are ready to build on their language skills. This course focuses on expanding vocabulary, improving grammar, and enhancing proficiency in listening, speaking, reading, and writing. Students will engage in more complex conversations, develop stronger reading comprehension, and write more detailed sentences and paragraphs.

Prerequisite: none

Designation: College Prep **Credit Type:** elective **Credits:** 0.5 High School

Contact Hours: 57

English Language Development III

Description: Level Three English Language Development is designed for students who have a solid foundation in English and are looking to refine and expand their language skills. This course emphasizes building greater fluency and accuracy in listening, speaking, reading, and writing. Students will engage with more advanced vocabulary, complex grammatical structures, and a wider variety of texts and contexts. The goal is to increase students' ability to communicate effectively and confidently in diverse, real-world situations.

Prerequisite: none

Designation: College Prep **Credit Type:** elective **Credits:** 0.5 High School

Contact Hours: 57

Collaboration Group

Description: Collaborate Group is a support-based course designed for students who benefit from additional instruction in both math and language arts. This class provides a personalized learning environment where students receive targeted academic support, small-group instruction, and individualized strategies to help them succeed. Students work on strengthening their foundational skills, reinforcing classroom content, and developing effective study and organizational strategies. Additionally, the course supports students in working toward their post-secondary goals and staying on track with their coursework to promote confidence and academic growth.

Prerequisite: Individual Placement

Designation: College Prep **Credit Type:** elective **Credits:** 0.5 High School

Contact Hours: 57

Focus Group

Description: Focus Group is a support-based course designed for students who need targeted assistance in either math or language arts. The class provides individualized and small-group instruction, helping students strengthen their skills, overcome challenges, and engage more confidently with their coursework. Students receive personalized guidance to build problem-solving skills, improve academic strategies, and stay organized. This course also helps students explore and plan for their future goals, equipping them with the tools they need for continued academic success.

Prerequisite: Individual Placement

Designation: College Prep **Credit Type:** elective **Credits:** 0.5 High School

Contact Hours: 57

Resource Room

Description: This course is designed to provide individualized or small-group support for students who need additional assistance to succeed in their academic work. This class offers a personalized learning environment where students receive targeted interventions in core subjects, such as English language arts, mathematics, and other areas as needed. The goal of this class is to help students develop the skills and strategies necessary to overcome academic challenges and build confidence in their abilities.

Prerequisite: Individual placement

Designation: College Prep **Credit Type:** elective **Credits:** 0.5 High School Credits

Contact Hours: 57

On-Campus Credential Options

Program	# of Semesters	Certification
Aviation Pathway	4	Part 107 Drone License
Business Fundamentals	1+	Concepts of Entrepreneurship; Fundamental Marketing Concepts
Certification Lab	1+	Adobe Suite, Quickbooks or Microsoft 365
Construction Pathway	2	HBI PACT Carpentry or HBI PACT Electrical Wiring
Culinary Program	1+	ServSafe Manager
Engineering Pathway	4	Mechanical Design (CSWA) Certification
Health Science Pathway	4+	Program completion, or CNA / Phlebotomy
Microsoft Applications	1	Microsoft Office Specialist (MOS) - 3 Microsoft certifications (Outlook, Powerpoint, Word, Access, or Excel) or Microsoft 365
Networking	3+	IT Specialist – Networking, Networking Security, and Device Configuration and Management
Behavior Mental Health Pathway	1+	Program completion (Behavior Health Plus, Behavior Health Assistant, Behavioral Health Patient Navigator, AAS, BA)

Credential Descriptions

Part 107 Drone License

Part 107 rules is the requirement for all drone pilots to get a remote pilot certificate before they can do commercial operations. More commonly known as the “drone license”, this certificate is legal

proof that the drone pilot complies with the standard knowledge and safety standards of the FAA for commercial drone pilots. It also allows the FAA to maintain a database of all licensed drone pilots, with the relevant information made available to the public.

Exam Details:

Testing Site: PSI Testing Site

Exam Duration: 2 hours

Passing Score: 70%

Format: Computer-based, multiple-choice.

Adobe Suite – Certified Professional in Visual Design

By earning the Photoshop certification and either Illustrator or InDesign certifications, students will build skills in multiple Adobe software applications that will allow them to create visually cohesive designs that capture people's imagination.

Exam Details:

Exam Duration: 60 minutes.

Passing Score: 70%

Format: Computer-based, lab-based assessment.

QuickBooks Certified User Online

This exam assesses competency in the Intuit QuickBooks Online software, including knowledge related to administration, sales, vendors, bank accounts, transaction rules, receipts, and basic reports and views. QuickBooks certification is a professional accreditation issued by Intuit, demonstrating expertise in using QuickBooks for financial management tasks.

Exam Details:

Exam Duration: 50 minutes.

Passing Score: 70%

Format: Computer-based, multiple choice.

Microsoft 365 Certified: Fundamentals (MS 900)

This exam is designed for you, if you're looking to demonstrate foundational-level knowledge of cloud-based solutions to facilitate productivity and collaboration among on-site, remote, and hybrid workers. As a candidate, you may: 1. Have knowledge of cloud-based solutions. 2. Be new to Microsoft 365.

Exam Details:

Exam Duration: 45 minutes.

Passing Score: 70%

Format: Computer-based, multiple choice.

HBI PACT Carpentry

This certification assessment is a customized assessment for the Home Builders Institute. This assessment measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment offers both a written and performance component and can be used at the secondary level and postsecondary level. This assessment can be delivered online or paper/pencil format.

Exam Details:

Exam Duration: Modules throughout semester

Passing Score: 70%

Format: Completion of Core Pact Competencies and skills through all units of the online course.

HBI PACT Basic Electrical

This certification assessment is a customized assessment for the Home Builders Institute. This assessment measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment offers both a written and performance component and can be used at the secondary level and postsecondary level. This assessment can be delivered in an online or paper/pencil format.

Exam Details:

Exam Duration: Modules throughout semester

Passing Score: 70%

Format: Completion of Core Pact Competencies and skills through all units of the online course.

ServSafe Manager

ServSafe Manager Certification is a certification program that verifies a manager's ability to protect the public from foodborne illness. The certification is accredited under the Conference for Food Protection Standards by the American National Standards Institute (ANSI). The training program includes essential practices for food safety and the latest FDA Food Code. Every food service establishment is required to have at least one employee who holds the ServSafe Food Manager Certification.

Exam Details:

Exam Duration: 2 hours

Passing Score: 70%

Format: Computer-based, multiple-choice.

Mechanical Design (CSWA) Certification

The Certified SOLIDWORKS Associate (CSWA) certification is an industry-recognized credential that validates a candidate's foundational knowledge and skills in mechanical design and 3D

modeling using SOLIDWORKS. It is intended for students, engineers, and professionals who want to demonstrate their ability to use SOLIDWORKS effectively.

Exam Details:

Exam Duration: 3 hours

Passing Score: 70%

Format: Computer-based, multiple-choice, and practical modeling questions.

Health Science Pathway

This credential pathway includes four health science courses: Introduction to Health Sciences (HPR 1006 - Customer Service in Healthcare & HPR 1007 Computers in Healthcare), Anatomy and Physiology, HPR 1040 and HPR 1008. Students can also complete Phlebotomy course and exam through the ASCP (American Society of Clinical Pathologists).

Exam Details:

Exam Duration: 2 Hours.

Passing Score: 70%

Format: Computer-based, multiple choice.

Microsoft Office Specialist

To earn the Microsoft Office Specialist Certificate, a student needs to pass three out of four Microsoft exams: Microsoft Outlook, Microsoft PowerPoint, Microsoft Word and/or Microsoft Excel. Each exam focuses on core Word features

Exam Details:

Exam Duration: 50 minutes

Passing Score: 70%

Format: Computer-based, multiple-choice, and practical questions.

Unity Certified User

The Unity Certified User (UCU) certification is an entry-level credential designed to validate foundational skills and knowledge in Unity, a leading platform for creating interactive, real-time 3D content. This certification is ideal for students, aspiring game developers, and professionals seeking to demonstrate their proficiency in Unity and enhance their career prospects in fields such as game development, augmented reality (AR), virtual reality (VR), and interactive media.

Exam Details:

Exam Duration: 50 minutes.

Passing Score: 500/700 points.

Format: Computer-based, multiple choice.

IT Specialist – Networking

This certification assesses a candidate's understanding of fundamental networking concepts, including network infrastructure, protocols, and security. It is suitable for those pursuing roles in network administration or IT support.

Exam Details:

Exam Duration: 50 minutes.

Passing Score: 70%

Format: Multiple-choice and performance-based questions.

IT Specialist – Networking Security

This certification evaluates a candidate's knowledge of essential network security principles, including threat analysis, mitigation strategies, and security protocols. It is ideal for individuals aiming for positions in cybersecurity or network security analysis.

Exam Details:

Exam Duration: 50 minutes.

Passing Score: 70%

Format: Multiple-choice and performance-based questions.

IT Specialist – Device Configuration and Management

This certification measures a candidate's proficiency in configuring, managing, and troubleshooting Windows devices and mobility. It is tailored for those seeking roles in IT support or systems administration.

Exam Details:

Exam Duration: 50 minutes.

Passing Score: 70%

Format: Multiple-choice and performance-based questions.

On Campus Career Tech Education Pathways

Aviation

Aviation Pathway

Explore aeronautics, drone technology, and aviation weather while earning valuable certifications and college credits. Gain hands-on experience in flight operations and unmanned aerial systems (UAS) and work toward obtaining your FAA Part 107 Remote Pilot Certification, opening doors to careers in aviation, aerospace, and drone technology.



Careers

This pathway can prepare students for the following careers:

- Aerial Photography & Videography
- Drone Inspection Services
- Surveying & Mapping
- Search and Rescue / Public Safety
- Drone Deliveries
- Filmmaking & Media Production
- Agricultural Drone Services

Length

2 years long at CECA

Club

Students in this pathway will have the opportunity to join SkillsUSA and participate in local, state, and national competitions in a variety of career and technical fields.

"SkillsUSA's mission is to empower students to become world-class workers, leaders, and responsible American citizens. Through education, training, and hands-on experiences, SkillsUSA helps students develop personal, workplace, and technical skills that prepare them for success in their chosen careers and beyond."



Introduction to Aviation

An overview of the aviation and aerospace industry, covering history, careers, pilot training, aircraft systems, aerodynamics, airports, weather, and navigation. Includes an introduction to manned space flight.

AES 1400 - Aviation Weather (3 Credits)

Covers meteorology for aviation, focusing on interpreting National Weather Service reports and forecasts to assess flight conditions. Prepares students for the FAA Private Pilot Knowledge exam.

AES 1040 - Aviation UAS and Drone Technology (3 Credits)

Explores unmanned aircraft systems (UAS), including AV types, FAA regulations, mission operations, ethical concerns, and future applications in aviation.

Math 1140 - Career Math (3 Credits)

Introduces aviation students to essential math concepts—measurement, algebra, geometry, statistics, and graphing—with real-world applications.

AES 1100 - Advanced Flight (6 Credits)

Covers aircraft components, aerodynamics, systems, airports, air traffic control, navigation, and FAA regulations. Prepares students for the FAA Private Pilot Knowledge exam.



Behavioral Health

Behavioral Health Pathway

Gain the skills to start working in behavioral health after 4-5 years of high school, or to continue on to a bachelors or masters degree to work in social work, behavioral health, and more!



Careers

This pathway can prepare students for the following careers:

- Addiction Counseling Assistant
- Behavioral Health Assistant
- Patient Navigator
- Peer Support Specialist

Length

4-5 years at CECA & CCA

Associates of Science in Behavioral Health & Social Work

The AAS degree in Behavioral Health with an emphasis on Mental Health and Social Work focuses on preparing students for careers in the mental health and social services field. Course work provides foundational behavioral health knowledge as well as the ability to apply a wide array of concepts and skills within diverse behavioral health settings. There is a particular focus on understanding and addressing mental health issues. Graduates are prepared to work in various mental health settings, such as clinics, hospitals, community centers, and social service agencies.

Stackable Credentials

Patient Navigator (12 credits)

The Patient Navigator Certificate ensures students are prepared to support clients in identifying resources as well as navigating behavioral healthcare services and systems. Students will focus on promoting client health and wellbeing. While not directly providing services, navigators are equipped with valuable skills. These include empathy, cultural competency, understanding of behavioral healthcare systems, effective communication, and boundaries.

Behavioral Health Plus Certificate (6 credit hours)

The Behavioral Health Plus Certificate is an effective addition to almost any role (Certified Nurse Aide, Medical Assistant, etc.). It ensures students build foundational behavioral health knowledge as well as entry-level crisis management and de-escalation techniques. Students can then apply these skills in a variety of settings.

Qualified Behavioral Health Assistant (10 credits)

The Qualified Behavioral Health Assistant Certificate ensures students build a strong foundation of behavioral health knowledge and competencies. The areas of focus include behavioral health and wellness, intercultural competency, therapeutic communication, case management, and crisis intervention. Upon completion of this coursework, students will be a Qualified Behavioral Health Assistant as outlined by the Behavioral Health Administration.

Behavioral Health Assistant II (16 credits)

The Behavioral Health Assistant II Certificate builds upon the Assistant I courses through service-learning experience, as well as a deeper study and understanding of diversity. It ensures students have theoretical and experiential knowledge of behavioral health care and practice. Following this program, students will have practiced applying many concepts and skills within diverse behavioral health settings. The areas of focus include behavioral health and wellness, intercultural competency, inclusive practice, therapeutic communication, crisis intervention, and service-learning.



Construction

Construction Pathway

Gain hands-on experience and industry-recognized certifications in carpentry, electrical work, and general construction. This program equips students with essential skills through real-world projects, preparing them for high-demand careers in the skilled trades. Earn certifications like **HBI Core PACT** and **OSHA 10** while developing the expertise needed to succeed in the construction industry. Start building your future today!



Careers

This pathway can prepare students for the following careers:

- Carpentry
- Electrician's Helper
- Plumbing
- Painter

Length

1 year long at CECA



Principles of Construction

This course introduces the foundational skills needed for a career in residential construction. Students learn safety protocols, tool usage, construction math, and employability skills. Hands-on experience includes working with tools and materials, hazard identification, basic first aid, and an introduction to print reading.

Carpentry

Students gain essential carpentry skills, including tool identification, measurement techniques, and construction methods. The course covers framing, shingling, concrete forms, and the installation of doors, windows, siding, trim, and insulation. Emphasizes safety, craftsmanship, and problem-solving through real-world projects.

Electrical Wiring

An introduction to residential electrical work, covering safety, National Electrical Code (NEC) basics, and wiring techniques. Students learn to install circuits, wire switches and outlets, and troubleshoot electrical systems. Hands-on training focuses on precision, industry standards, and problem-solving.



Culinary

Culinary Pathway

Develop essential skills for the food service industry while earning your ServSafe Manager Certification. Gain hands-on experience in kitchen operations, food safety, and restaurant management, preparing for careers in hospitality, culinary arts, and food service.



Careers

This pathway can prepare students for the following careers:

- Restaurant Manager
- Kitchen Manager
- Food and Beverage Manager
- Food Safety Coordinator
- Quality Assurance Specialist
- Catering Manager
- School Cafeteria Manager

Length

1 year long at CECA



ServSafe I

ServSafe Level 1 Food Handler provides an introduction to food safety and handling best practices. Students will learn about preventing foodborne illnesses, proper hygiene, temperature control, cross-contamination prevention, cleaning and sanitizing procedures, pest control, and food safety regulations. This course prepares students to take the ServSafe Manager exam and apply these essential principles in a food service environment.

ServSafe II

ServSafe Level II Food Safety Management builds upon the ServSafe Manager certification, focusing on the practical application of food safety principles within a school cafeteria setting. Students will learn how to implement and manage a comprehensive food safety program, addressing topics such as staff training, risk assessment, inventory management, HACCP plan development and implementation, and regulatory compliance specific to school food service operations. This course provides students with the skills and knowledge to effectively oversee food safety practices and ensure a safe dining environment for students and staff.



Engineering

Engineering Pathway

Explore various engineering fields while gaining hands-on experience in mechanical design. Students work toward earning the Certified SOLIDWORKS Associate (CSWA) certification, demonstrating industry-level proficiency in 3D modeling and design. This program prepares students for careers in engineering, manufacturing, and product development.



Careers

This pathway can prepare students for the following careers:

- Manufacturing
- 3D Modeler
- Design Engineer
- Simulation Engineer
- Technical Drafter
- Mechanical Design Engineer

Length

2 years long at CECA

Club

Students in this pathway will have the opportunity to join SkillsUSA and participate in local, state, and national competitions in a variety of career and technical fields.

"SkillsUSA's mission is to empower students to become world-class workers, leaders, and responsible American citizens. Through education, training, and hands-on experiences, SkillsUSA helps students develop personal, workplace, and technical skills that prepare them for success in their chosen careers and beyond."



Introduction to Engineering

This course covers engineering problem-solving, design, and development. Students engage in hands-on projects using industry-standard design protocols, technical documentation, and 3D modeling.

Digital Electronics

Students explore digital circuits used to process and control signals, focusing on faster processing, storage, and reliability—fundamentals of modern electronics.

Robotics & Automated Systems

A hands-on course on robotics and automation in industry. Topics include programmable circuits, interfacing, ethical standards, and system maintenance.

Math 1140 - Career Math (3 Credits)

Introduces essential math concepts—measurement, algebra, geometry, and statistics—applied to real-world engineering scenarios.

WBL: Engineering & Technology

A structured work-based learning pathway where students progress from simulated industry tasks to real-world problem-solving and workplace exposure.



Health Science

Health Science Pathway

Gain hands-on experience, earn industry-recognized certifications, and build a strong foundation in healthcare. This program prepares students for careers in the medical field with valuable college credits and certifications like CNA (Certified Nurse Aide) and BLS (Basic Life Support), setting them up for immediate employment or further education.



Careers

This pathway can prepare students for the following careers:

- Nurse Aide
- Licensed Practical Nurse
- Medical Assistant
- Medical Interpreter

Length

2 years long at CECA
Will complete level the last class at CCA

Club

Students in this pathway will have the opportunity to join HOSA (Health Occupation Student Association) and participate in local, state and national competitions in healthcare.

"HOSA's mission is to empower HOSA-Future Health Professionals to become leaders in the global health community, through education, collaboration, and experience.

HOSA actively promotes career opportunities in the health industry and to enhance the delivery of quality health care to all people."



Introduction to Health Science

Introduction to Health Science provides the foundational knowledge and skills students need for careers in health care. Content includes a focus on day-to-day skills and expectations for health professionals, which include promoting wellness, maintaining a safe environment, creating medical records, and practicing good communication, collaboration, and leadership.

Anatomy and Physiology

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.

HPR 1040 Medical Terminology

This course includes the study of terms related to major body systems, oncology, and psychiatry as well as clinical laboratory and diagnostic procedures, and imaging, and provides accepted pronunciation of terms and relative use in the healthcare setting.

HPR 1008 Law and Ethics for Health Professionals

Introduces students to the study and application medico-legal concepts in medical careers. This course seeks to establish a foundation for ethical behavior and decision making in health professions.

Medical Interpretation

This accelerated program through Colorado Language Connection prepares students to become medical interpreters in medical facilities.

Nurse Aide Certificate

- NUA 1001 Certified Nurse Aide Health Care Skills (4 credits)
- NUA 1070 Nurse Aide Clinical Experience (1 credit)

Phlebotomy Certificate

- HPR 1020 Phlebotomy (4 credits)
- HPR 1080 Internship (3 credits)



Certification Lab (1 Semester)

This self-paced course provides students with the opportunity to earn industry-recognized certifications in their chosen field. Students will have access to resources and support as they work independently to complete certifications in Adobe, QuickBooks, Booking Professionals, Microsoft Certified Fundamentals, or Unity User Programmer. This flexible learning environment allows students to develop valuable technical skills at their own pace, preparing them for future academic and career opportunities.



Adobe Suite – Certified Professional in Visual Design

By earning the Photoshop certification and either Illustrator or InDesign certifications, students will build skills in multiple Adobe software applications that will allow them to create visually cohesive designs that capture people's imagination.

Exam Details:

Exam Duration: 60 minutes.

Passing Score: 70%

Format: Computer-based, lab-based assessment.



QuickBooks Certified User Online

This exam assesses competency in the Intuit QuickBooks Online software, including knowledge related to administration, sales, vendors, bank accounts, transaction rules, receipts, and basic reports and views. QuickBooks certification is a professional accreditation issued by Intuit, demonstrating expertise in using QuickBooks for financial management tasks.

Exam Details:

Exam Duration: 50 minutes.

Passing Score: 70%

Format: Computer-based, multiple choice.



Microsoft 365 Certified: Fundamentals (MS 900)

This exam is designed for you, if you're looking to demonstrate foundational-level knowledge of cloud-based solutions to facilitate productivity and collaboration among on-site, remote, and hybrid workers. As a candidate, you may: 1. Have knowledge of cloud-based solutions. 2. Be new to Microsoft 365.

Exam Details:

Exam Duration: 45 minutes.

Passing Score: 70%

Format: Computer-based, multiple choice.



Unity Certified User

The Unity Certified User (UCU) certification is an entry-level credential designed to validate foundational skills and knowledge in Unity, a leading platform for creating interactive, real-time 3D content. This certification is ideal for students, aspiring game developers, and professionals seeking to demonstrate their proficiency in Unity and enhance their career prospects in fields such as game development, augmented reality (AR), virtual reality (VR), and interactive media.

Exam Details:

Exam Duration: 50 minutes.

Passing Score: 500/700 points.

Format: Computer-based, multiple choice.



IT Technical Support Specialist

Looking to get your foot in the door to a career in information technology? Working in tech support is one of the best ways you can. But how do you get started in tech support? The IT Technical Support Specialist credential can give you the foundation that support team managers are looking for as they consider your candidacy. You can be confident in your foundational skills that will get up to speed quickly while giving your future employer confidence in your technical know-how. Earning this credential is a strong way to open the door to opportunity.



Careers

This pathway can prepare students for the following careers:

- Help Desk Technician
- IT Support Specialist
- Systems Administrator
- Cybersecurity Analyst

Length

2 years long at CECA



Digital Literacy

Teaches essential skills for navigating the digital world responsibly. Students learn to evaluate information critically, use technology effectively, and engage in ethical digital practices.

Networking

Introduces core networking concepts, including network types, infrastructure, and transmission methods. Covers LANs, WANs, wireless networking, cloud computing, and virtualization.

Network Security

Covers fundamental security concepts, including encryption, firewalls, intrusion detection, and network isolation. Students learn risk mitigation, authentication, and secure network design.

Device Configuration and Management

Provides hands-on experience in configuring and troubleshooting Windows 10 and 11 devices in business environments. Focuses on system operation and management.



Microsoft Office Specialist Associate (1 Semester)

The number of industries that only use one Office application is zero. Whether creating spreadsheets, presentations, outlines, mockups, wireframes, formal documents, flow charts, or emails, employers work through shared information and overwhelmingly rely on Microsoft Office to manage and organize it. The Microsoft Office Specialist Associate credential shows an employer that an individual is ready to be productive in any number of important situations. Demonstrating you are that individual with the Microsoft Office Specialist Associate pathway, can set you up for a myriad of opportunities down the road.



Careers

This pathway can prepare students for the following careers:

- Administrative Assistant
- Office Clerk
- Customer Service Representative
- Marketing

Length

1 semester long at CECA

Word Associate

Certifies expertise in Microsoft Word, including formatting documents, managing tables, inserting graphics, and using collaboration tools to create professional documents.

Excel Associate

Demonstrates proficiency in Microsoft Excel, covering data entry, formatting, formulas, functions, charts, and basic data analysis techniques.

PowerPoint Associate

Validates skills in Microsoft PowerPoint, including slide creation, formatting, animations, transitions, and delivering effective presentations.

Outlook Associate

Certifies knowledge of Microsoft Outlook, focusing on email management, calendar scheduling, task organization, and contact management for efficient communication.

