

Course Catalog

Courses listed in the catalog are potential offerings. Courses run based on student demand as determined through enrollment. Academy Online may add or remove courses based on enrollment and budgetary considerations. These changes will be communicated as needed and before semesters begin.

Current in-district students should build full schedules at their primary school in case their desired online course(s) does not run because of low enrollment. In-building courses may then be dropped within the first two weeks of class.

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Important Definitions & Clarifications

This document is intended only to provide students and parents with course offering information. For specific policies and procedures, consult the Extended Studies at Academy Online Toolkit & Handbook.

Dual credit: Courses marked as offering dual credit have a corresponding university course for which students can receive college credit. Students who are prepared to take college level courses can sign up for college credit, pay a reduced university tuition, and earn credit on a university transcript as long as the student earns a passing grade and meets university policies and deadlines. Any student who does not pass the course will be required to pay D20 the supplemented tuition cost, less the \$75.00 tuition paid up front. Transferability of credit to other universities is not guaranteed.

HEAR Requirements: Higher Education Admissions Requirements. These credits represent minimum requirements at four-year public institutions and not for the state's community colleges, which are open admissions. Meeting the Higher Education Admission Requirement does not guarantee admission to a four-year public institution. Visit individual college websites or contact the schools for all the specifics. More information on HEAR can be found at www.state.co.us/cche_dir/hecche.html or wee.collegeincolorado.org.

Hybrid: Courses marked as a hybrid format have both online and in person components. If a student is not able to attend the course in person at the scheduled meeting times, he or she must make arrangements with the instructor, often to set up "Skype" type participation.

Prerequisite: Requirements before a course can be taken.

Weighted grades: By Board policy, courses approved for weighted grade status will receive 1 extra grade point per credit for that course based on a 5-point scale. This extra point will be calculated with all other course grades, which are calculated on a 4-point scale. All Advanced Placement® (AP®), International Baccalaureate (IB), and honors courses will receive weighted grade status. Class rank and all other honors will be based on a weighted grade point average.

Arts

Course	Grade	HS Credits	Meets HEAR?	Prerequisite	Weighted Grade?	Format	Course Dates	Dual College Credit?
AP® Studio Art 2D	11-12	2	Yes	A minimum of three semesters of arts and portfolio review	Yes	Hybrid	Not currently offered for 2015-16	Yes
AP® Studio Art Drawing	11-12	2	Yes	A minimum of three semesters of arts and portfolio review	Yes	Hybrid	Not currently offered for 2015-16	Yes
Computer Graphic Design 1	10-12	1	Yes	None	No	Online	August 17 – December 18	No
Digital Photo 2	10-12	1	Yes	Digital Photography 1 with a grade of "C" or higher, and/or instructor's approval	No	Online	January 6 – June 1 (or last day for students)	Yes

AP® STUDIO ART 2D (NOT CURRENTLY OFFERED FOR 2015-16)

This is a year-long, college-level class which requires dedication by the student in spending equal amounts of time inside and outside the classroom in art production. Students will work in the summer and the entire school year producing artwork for a portfolio. The AP® 2D Design Portfolio involves integrative application of elements and principles through any 2D process or medium including, but not limited to: graphic design, photography, digital imaging, illustration, fabric design and digital imaging. 24 to 29 works will be completed for the AP® exam portfolio. It is mandatory that the student work the entire school year producing artwork & submit a portfolio to the AP® board in May.

This course has monthly face-to-face meetings with a mentor art teacher (at a time and place that you work out with the mentor teacher) as well as online components to be accessed regularly. Students should budget between 7 and 10 hours per week for course and portfolio work.

Course Fees

- Materials: \$75.00
- AP® exam fee: approximately \$95.00 (because this course is all preparation for the AP® portfolio, taking the AP® exam is required)
- University of Colorado, Colorado Springs credit (optional): \$75.00 (3 total credits)
 - Corresponding UCCS course: VA 1010, Beginning Studio 2D

AP® STUDIO ART DRAWING (NOT CURRENTLY OFFERED FOR 2015-16)

This is a year-long, college-level class which requires dedication by the student in spending equal amounts of time inside and outside the classroom in art production. Students will work in the summer and the entire school year producing artwork for a portfolio. The AP® Drawing Portfolio should demonstrate the student's mastery of drawing through a variety of approaches and media, with an emphasis on observational drawing. Value, line quality, composition, mark making and the illusion of depth will be addressed in the 24 to 29 works completed for the AP® exam portfolio. It is mandatory that the student work the entire school year producing artwork & submit a portfolio to the AP® board in May.

This course has monthly face-to-face meetings with a mentor art teacher (at a time you work out with the mentor teacher) as well as online components to be accessed regularly. Students should budget between 7 and 10 hours per week for course and portfolio work.

Course Fees

- Materials: \$75.00
 - AP® exam fee: approximately \$95.00 (because this course is all preparation for the AP® portfolio, taking the AP® exam is required)
 - University of Colorado, Colorado Springs credit (optional): \$75.00 (3 total credits)
Corresponding UCCS course: VA 1040, Beginning Drawing
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COMPUTER GRAPHIC DESIGN 1

Students will learn to use the computer as a tool for creating their own work and for manipulating digitized images. Students will use Adobe applications, as well as digital imaging devices, to create a variety of 2D projects, which may include story illustrations, juxtapositions, and original works of art. Final project is to create a portfolio in hard copy and electronically showcasing the student's skills.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Extended Studies at Academy Online High School

DIGITAL PHOTO 2

This course will expand on the themes covered in Digital Photo 1 but with an emphasis on expanding technical fluency and personal articulation. Various genres of fine art photography will be explored. Considerable weight will be placed on the final portfolio. Students should have access to a digital camera (preferred) or a smart phone that takes >10 megapixel images.

This course meets entirely online. Students should budget approximately 5 hours per week for photographing and working through online content.

Course Fees

This course is *likely* to offer dual college credit: University of Colorado, Colorado Springs credit (optional): \$75.00 (3 total credits)

Corresponding UCCS course: VA 2150, Beginning Digital Photography

Career & Technical Education

Course	Grade	HS Credits	Meets HEAR?	Prerequisite	Weighted Grade?	Format	Course Dates	Dual College Credit?
College & Career Prep	12	1	No	None	No	Online	August 17 – December 18	No
Game Programming	9-12	1	Yes	Programming 1 (Programming 2 recommended)	No	Hybrid	Not currently offered for 2015-16	No
Principles of Engineering	9-12	2	No	None	No	Hybrid	Not currently offered for 2015-16	Yes
Programming 1	9-12	1	Yes	Algebra 1 or instructor approval	No	Hybrid	August 17 – December 18	No
Programming 2	9-12	1	Yes	Programming 1 or instructor approval	No	Hybrid	January 6 – June 1 (or last day for students)	No

COLLEGE & CAREER PREP

This course teaches valuable career exploration, college preparation, and life skills. Students will research appropriate career and college programs, determine costs, create a personal resume, write an admissions essay, apply for college admissions, and complete scholarship searches. The class includes significant lab time for students to complete the college admissions process and activities. The course may also include employment readiness simulations. Second semester students will study personal finance topics including career development, money management, budgeting, credit management, taxes, buying a car, leasing an apartment, buying a house, insurance, savings and investments, and retirement.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

None

GAME PROGRAMMING (NOT CURRENTLY OFFERED FOR 2015-2016)

This course will teach students the fundamentals of game design and game programming. Using a variety of programming languages and environments, students will complete individual, small group, and large group projects. Game genres will include strategy games, puzzle games, sports games, arcade games, and role-playing games. No violent games will be created. The two-dimensional games will be primarily graphic or GUI-based, but console games may also be developed.

This course requires attendance at in-person meetings approximately once every three weeks. Students should budget approximately 5 hours per week for course work.

Course Fees

None

PRINCIPLES OF ENGINEERING (NOT CURRENTLY OFFERED FOR 2015-2016)

Principles of Engineering is a broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students will develop engineering problem solving skills that are involved in post-secondary education programs and engineering careers. They will explore various engineering systems and manufacturing processes. They will also learn how engineers address concerns about the social and political consequences of technological change. The main purpose of this course is to experience through theory and hands-on problem-solving activities what engineering is all about and to answer the question "Is a career in engineering or engineering technology for me?"

Extended Studies at Academy Online High School

This course requires attendance at class meetings approximately once per month. Details on time and location of these class meetings will be announced by June 15, 2015. This course also has online components to be accessed regularly. Students should budget approximately 5 hours per week for course work.

Course Fees

University of Colorado, Colorado Springs credit (optional): \$75.00 (3 total credits)

Corresponding UCCS course: MAE 1502, Principles of Engineering

PROGRAMMING 1 – SEMESTER 1

The objective of this course is to teach problem-solving strategies and develop critical thinking skills by studying the fundamental principles of structured computer programming in Java. The student will develop algorithms and express them in top-down diagrams. Topics may include data types, variables, mathematical and logical operations, strings, character arrays, input, output, conditional statements, loop structures, and functions. *Most instruction is delivered online in video tutorial format. Students taking Programming 1 should plan to take Programming 2 second semester so as to build upon recent skills.*

This course requires attendance at three class meetings plus an optional fourth meeting from 4:00pm to 6:00pm at the D2o Education and Administration Center. During these meetings, students can ask questions, work with and hear from local computer programmers, and solve collaborative problems with programming. In addition to these course meetings, students should budget approximately 5 hours per week for online course work.

Required class meetings:

- **Thursday, August 20, 4:00pm—6:00pm:** Course Introduction and Information (this session may end earlier than 6:00pm)
- **Wednesday, September 23, 4:00pm—6:00pm:** Guest speaker TBA
- **Wednesday, October 28, 4:00pm—6:00pm:** Collaborative project
- **Wednesday, December 2, 4:00pm—6:00pm:** Optional project review/help session

Course Fees

None

Extended Studies at Academy Online High School

PROGRAMMING 2 – SEMESTER 2

This course is a continuation of the principles of structural programming introduced in Programming 1. Topics may include loops, advanced use of functions, structures, data files, arrays, and an introduction to object-oriented programming. *Most instruction is delivered online in video tutorial format.*

This course requires attendance at four class meetings from 4:00pm to 6:00pm at the D2o Education and Administration Center. During these meetings, students can ask questions, work with and hear from local computer programmers, and solve collaborative problems with programming. In addition to these course meetings, students should budget approximately 5 hours per week for online course work.

Required class meetings:

- **Wednesday, January 13, 4:00pm—6:00pm:** Course Introduction and Information (this session may end earlier than 6:00pm)
- **Wednesday, February 17, 4:00pm—6:00pm:** Guest speaker TBA
- **Wednesday, March 9, 4:00pm—6:00pm:** Collaborative project and introduce end-of-the-year project
- **April - May:** Scheduled individual meetings to discuss end-of-the-year project

Course Fees

None

Communications

Course	Grade	HS Credits	Meets HEAR?	Prerequisite	Weighted Grade?	Format	Course Dates	Dual College Credit?
Public Speaking	9-12	1	No	None	No	Hybrid	August 31 – December 14	Yes

PUBLIC SPEAKING

A lecture-recitation approach to the basic principles of speechmaking. Intended to give students basic information for the preparation and delivery of a variety of public presentations. Approved for UCCS LAS Oral Communication requirement.

This is a CU Platinum course hosted by Extended Studies at Academy Online and the D20 Career & Tech Ed. Department. These courses are all taught in a hybrid format by a UCCS instructor. Students must indicate intent to participate, complete UCCS registration, pay the \$75.00 tuition, and complete the D20 Concurrent Enrollment Agreement. The Extended Studies office will help students do this.

This course meets every Monday from 4:30 – 7:00pm, starting on August 31, 2015 and ending on December 14, 2015 (with no class during Thanksgiving break). In-person class meetings will be at the Academy Online Pilot Program modular classrooms on the Pine Creek High School Campus. The course also has online components through the UCCS online system to be accessed regularly. Students should budget approximately 5 hours per week for this course.

Course Fees

- University of Colorado, Colorado Springs credit (REQUIRED): \$75.00 (3 total credits)
Corresponding UCCS course: COMM 2100, Public Speaking

Extended Studies at Academy Online High School

English

Course	Grade	HS Credits	Meets HEAR?	Prerequisite	Weighted Grade?	Format	Course Dates	Dual College Credit?
British Literature & Composition	10-12	2	Yes	None	No	Online	August 17 – June 1 (or last day for students)	No
College Prep Composition	12	2	Yes	None	No	Online	August 17 – June 1 (or last day for students)	Yes
Creative Writing 2	10-12	1	Yes	Creative Writing 1	No	Online	January 6 – June 1 (or last day for students)	No
Explorations in Western Philosophy	10-12	1	Yes	None	No	Online	January 6 – June 1 (or last day for students)	Yes
Extended Studies for Advanced English Learners	10-12	1	No	Concurrent enrollment in an honors, AP®, or IB English course	No	Online	Not currently offered for 2015-16	No
Film as Literature	11-12	1	Yes	Parent/guardian permission slip	No	Hybrid	August 17 – December 18	No
Mythology	10-12	1	Yes	None	No	Online	January 6 – June 1 (or last day for students)	No

BRITISH LITERATURE & COMPOSITION

In this course, students will read, study, and interpret representative works of British literature from each of the major literary periods from Anglo-Saxon to modern. Students will also strengthen their writing skills, learn, and utilize various rhetorical strategies, and sharpen critical thinking skills. This is an NCAA approved class.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

None

COLLEGE PREP COMPOSITION

The course will prepare students for post-secondary reading and writing expectations and study. This course will prepare students for the types of writing tasks common in post-secondary pursuits. The course will familiarize students with various modes of discourse, research methods, and elements of rhetoric and style. The course will reinforce grammar and mechanics. This is an NCAA approved class.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

University of Colorado, Denver credit (optional): \$75.00 (3 total credits)

Corresponding UC-Denver course: ENGL 1020, Core Composition I

CREATIVE WRITING 2

This course is for students to continue to develop and advance existing creative writing skills with an emphasis on publication. This course is an NCAA approved class.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

No

Extended Studies at Academy Online High School

EXPLORATIONS IN WESTERN PHILOSOPHY (NOT CURRENTLY OFFERED FOR 2015-2016)

This course for the college-bound student explores the questions that have sparked discussion since the dawn of man: "What does it mean to be human?" "What is good?" "What makes a just society?" and "What makes something beautiful?" Students who enjoy discussion and debate will flourish in this class! Though we have no formal textbook, study in this class will focus on printed excerpts of important philosophers and will apply their ideas to students' lives. Evaluation comes in the form of written tests, papers, and projects. Come join the debate! This is an NCAA approved class.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

University of Colorado, Colorado Springs credit (optional): \$75.00 (3 total credits)

Corresponding UCCS course: PHIL 1000, Introduction to Philosophy

EXTENDED STUDIES FOR ADVANCED ENGLISH LEARNERS (NOT CURRENTLY OFFERED FOR 2015-2016)

Extended Studies for Advanced Learners is a course designed to support students in AP®, IB, and/or honors courses. The course may be used for extension of the parent course content and/or general support for advanced learners in AP®, IB, and/or honors courses.

Students who are attempting an AP® English course for the first time and would benefit from another avenue to practice skills, extend critical thinking, and examine in more depth the concepts being taught in the AP class would be a great fit for this course. Students would also benefit from working with another teacher of that AP® course and other students from around the district who could provide different perspectives.

This course meets entirely online. Students should budget approximately 3 hours per week for course work.

Course Fees

None

FILM AS LITERATURE

Through this course, students will analyze film as a record of human experience while focusing on the literary elements inherent in the film genre.

This course requires a parent permission slip to view the list of films. This course has four scheduled face-to-face meetings/movie nights with follow-up discussion at the dates, times, and locations listed below; students must attend all scheduled meetings; if one of these times does not work for a student, he or she must arrange an alternative time with the instructor, which could include attending the teacher's in-building course for viewing and discussion. The course also has online components and movies to be accessed regularly. Students should budget approximately 5 hours per week for watching films and completing corresponding course work online.

To the extent possible, selected films will be available for streaming from various websites or accessible streaming services. Films for the scheduled movie nights will be those that are not readily available from a streaming service. Up to three films will require purchase/rental by students, or will require students to attend the teacher's in-building course for viewing.

Required class meetings:

- **Wednesday, August 26, 5:00pm—6:00pm:** Course Introduction and Information
D20 Education and Administration Center
1110 Chapel Hills Drive, 80920
- **Thursday, September 3, 3:30pm—6:30pm**
Liberty High School, Room 206
8720 Scarborough Drive, 80920
- **Thursday, October 1, 3:30pm—6:30pm:**
Liberty High School, Room 206
8720 Scarborough Drive, 80920
- **Thursday, November 5, 3:30 – 6:30pm**
Liberty High School, Room 206
8720 Scarborough Drive, 80920

Course Fees

None

Extended Studies at Academy Online High School

MYTHOLOGY

Students will study connections between classical myths and myths of modern culture. This is an NCAA approved class.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

None

Math

Course	Grade	HS Credits	Meets HEAR?	Prerequisite	Weighted Grade?	Format	Course Dates	Dual College Credit?
ACT/SAT Math Review	10-12	1	No	None	No	Online	January 6 – June 1 (or last day for students)	No
AP® Statistics	11-12	2	Yes	Successful completion of Algebra 2	Yes	Hybrid	Not currently offered for 2015-16	Yes
Calculus III: Multivariable Calculus	9-12	2	No	Completion of AP Calculus BC	Yes	Hybrid	August 17 – December 18 OR January 6 – June 1 (or last day for students)	Yes
Extended Studies for Advanced Math Learners	10-12	1	No	Concurrent enrollment in an honors, AP, or IB math course	No	Online	Not currently offered for 2015-16	No
Geometry	9-12	2	Yes	Successful completion of Algebra 1	No	Online	Not currently offered for 2015-16	No

ACT/SAT MATH REVIEW

Designed to be taken the semester before attempting the ACT or SAT, this course will review elements of the mathematical concepts and skills that are part the ACT or SAT standardized tests. While not directly providing direct practice with test-taking skills, this course will provide lessons, reviews, and practice problems as one part of the process students may use in preparation to take these tests.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

None

AP® STATISTICS (NOT CURRENTLY OFFERED FOR 2015-2016)

Advanced Placement® Statistics is a course that covers topic related to the collection, organization, and analysis of data. Topics include descriptive statistics, probability, simulation, binomial and normal distributions, hypothesis testing, and statistical inference. At the conclusion of this course, students will be prepared for and expected to take the Advanced Placement® exam for potential college credit. This course is an NCAA approved class.

This course requires attendance every Wednesday from 3:00pm – 4:15pm in Room 408 at Rampart High School with the exceptions of August 26, October 14, November 25, Winter break, March 16, March 23, and April 20; it also has online components to be accessed regularly. Students should budget approximately 7-10 hours per week for the course meeting and work.

Course Fees

- AP® exam fee: approximately \$95.00 (taking the AP® exam is highly encouraged)
- University of Colorado, Colorado Springs credit (optional): \$75.00 (3 total credits)
Corresponding UCCS course: MATH 2810, Introductory Statistics

CALCULUS III: MULTIVARIABLE CALCULUS

This course is equivalent to a third semester college calculus course. Differential and integral calculus of several variables are the focal points of this college-level course which extends the advanced placement calculus experience to three dimensions, culminating in the calculus applications to physics with Stokes', Green's, and Gauss' Theorems. This is an NCAA approved class.

*Students in this course can schedule in-person meetings with the instructor as needed. In addition, there will be optional study groups/in-person instructional meetings on designated Pine Creek High School "green" days from 8:00am – 9:00am in Room 601 as well as every other Tuesday from 3:00pm – 4:00pm at Pine Creek High School in Room 601, starting on August 25 and ending on December 15. **Days and times for these after school sessions may be adjusted to work around student needs.** This course also has online components to be accessed regularly. Students should budget approximately 7-10 hours per week for course work.*

Course Fees

University of Colorado, Colorado Springs credit (optional): \$75.00 (4 total credits)
Corresponding UCCS course: Math 2350, Calculus III

EXTENDED STUDIES FOR ADVANCED MATH LEARNERS (NOT CURRENTLY OFFERED FOR 2015-2016)

Extended Studies for Advanced Learners is a course designed to support students in AP®, IB, and/or honors courses. The course may be used for extension of the parent course content and/or general support for advanced learners in AP®, IB, and/or honors courses.

Students who are attempting an AP® or honors math course for the first time and would benefit from another avenue to practice skills, extend critical thinking, and examine in more depth the concepts being taught in the AP®/honors class would be a great fit for this course. Students would also benefit from working with another teacher of that AP®/honors course and other students from around the district who could provide different perspectives.

This course meets entirely online. Students should budget approximately 3 hours per week for course work.

Course Fees

None

GEOMETRY (NOT CURRENTLY OFFERED FOR 2015-2016)

Topics consisting of Pythagorean Theorem, congruence and similarity will be further developed. Students will prove geometric theorems involving similarity, transformation, and congruence of two-dimensional and three-dimensional figures using inductive and deductive reasoning and constructions. Students will solve problems and model real-world situations involving two-dimensional and three-dimensional figures, trigonometric ratios, probability, and Personal Financial Literacy. Students who are mathematically proficient will demonstrate characteristics defined by the Standards for Mathematical Practice. This course will cover the same standards and rigor of a high school Geometry course. This is an NCAA approved class.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

None

Performing Arts

Course	Grade	HS Credits	Meets HEAR?	Prerequisite	Weighted Grade?	Format	Course Dates	Dual College Credit?
Playwriting	11-12	1	No	Theatre 1 and Theatre 2	No	Online	Not currently offered for 2015-16	Yes

PLAYWRITING (NOT CURRENTLY OFFERED FOR 2015-2016)

This course is designed for 11th/12th grade students who have taken Theatre I and Theatre II and wish to apply theatrical concepts and structure to writing. Students will experiment with a variety of techniques for script building and will complete various lengths and types of scripts.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

University of Colorado, Denver credit (optional): \$75.00 (3 total credits)

Corresponding CU – Denver course: FITV 1550, Scriptwriting 1 - Fiction

Physical Education

Course	Grade	HS Credits	Meets HEAR?	Prerequisite	Weighted Grade?	Format	Course Dates	Dual College Credit?
Athletic Training	9-12	1	No	Introduction to P.E. and instructor approval	No	Hybrid	Not currently offered for 2015-16	No
Global Health & Wellness	9-12	1	No	None	No	Online	August 17 – December 18 OR January 6 – June 1 (or last day for students)	No
Outdoor Fitness	9-12	1	No	Introduction to P.E. and parent permission slip	No	Hybrid	August 17 – December 18	Yes
Personal Fitness & Wellness - UCCS	10-12	1	No	Introduction to P.E.	Yes	Hybrid	September 3 – December 11 OR January 21 – May 5	Yes
Scuba Diving	10-12	1	No	Introduction to PE, instructor approval, and parent permission slip	No	Hybrid	April 25 – May 13	No

ATHLETIC TRAINING (NOT CURRENTLY OFFERED FOR 2015-2016)

This course allows an opportunity for students who have an interest in the field of sports medicine to learn basic techniques in Athletic Training. The course consists of training room management, wrapping and taping techniques, emergency care, rehabilitation, injury prevention, treatment of injuries, nutrition, and conditioning. Students have an opportunity to work with athletic teams.

This course requires attendance at class meetings approximately once every two weeks. Details on time and location of these class meetings will be announced by August 1, 2015. This course also has online components to be accessed regularly. Students should budget approximately 5 hours per week for course work.

Course Fees

TBD

Extended Studies at Academy Online High School

GLOBAL HEALTH & WELLNESS

Global Health and Wellness can meet the graduation requirement for Academy District 20. This class is designed for transfer students that need to meet the District 20 health requirement. In this class, students will research current health related issues in our society. This class uses the internet as its medium and is project-based. In meeting building technology requirements, students will have the opportunity to use a variety of search engines, research databases, PowerPoint, and Microsoft Publisher.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

None

OUTDOOR FITNESS

This course is designed to accommodate the needs of those students who have a restricted schedule. The class will be taught outside the traditional school day, after school, and on weekends. Students will have the opportunity to learn and be involved in outdoor lifelong fitness activities. These activities include strength training, hiking, mountain biking, backpacking, camping, snowshoeing, fishing, and rafting. The student needs to be highly motivated towards outdoor adventure activities. Student responsibilities include the production of our outdoor magazine, "Rocky Mountain Unleashed." This will provide an avenue for students to write in a meaningful way, as well as to promote fitness to other students and adults. *Note: School sports, club athletics, and related activities cannot be used to count for workouts for PE classes.*

*This course has eight scheduled outdoor fitness activities, and students must attend four of the eight activities **and** the required first course meeting. Dates, times, and locations are below. The course also has online components to be accessed regularly. Students should budget 5 hours per week for this course.*

- **Wednesday, August 19, 3:30pm—4:30pm:** Course Introduction (REQUIRED)
Education and Administration Building
1110 Chapel Hills Drive
- **Thursday, August 27, 3:30pm—6:30pm:** Hiking in Stanley Canyon
- **Wednesday, September 2, 3:30pm—6:30pm:** Biking Section 16 Black Forest
- **Saturday, September 12, 9:00am—12:00pm:** Hiking Eagle's Peak
- **Thursday, September 17, 3:30pm—6:30pm:** Biking Santa Fe Trail
- **Saturday, October 3, 9:00am—12:00pm:** Archery at the Air Force Archery Range
- **Wednesday, October 14, 3:30pm—6:30pm:** Fly Fishing at the ice lake on the Air Force Academy

Extended Studies at Academy Online High School

- **Thursday, November 12, 3:30pm—6:30pm:** Camping/backpacking skills
Education and Administration Building
1110 Chapel Hills Drive
- **Saturday, December 12, 9:-00am—2:00pm:** Snowshoeing Pikes Peak
This trip will have a \$1.00 access fee to Pikes Peak for students and a \$5.00 access fee for any adults/chaperones

Course Fees

- University of Colorado, Colorado Springs credit (optional): \$75.00 (3 total credits)
Corresponding UCCS course: HSCI 1080, Outdoor Adventure Fundamentals
- \$1.00 students & \$5.00 adults/chaperones for the December 12 snowshoeing trip

PERSONAL FITNESS & WELLNESS - UCCS

This is a UCCS class provided by the CU Succeed Platinum program; the course is taught by a UCCS instructor. Following is the UCCS course description: Investigates the value of six components of wellness: physical, social, intellectual, environmental, spiritual, and emotional. Activities include the development of tools and strategies to improve personal fitness levels, nutrition status, stress management, and maintaining a healthy lifestyle throughout the lifespan. *Note: School sports, club athletics, and related activities cannot be used to count for workouts for PE classes.*

This is a CU Platinum course hosted by Extended Studies at Academy Online and the D20 Career & Tech Ed. Department. These courses are all taught in a hybrid format by a UCCS instructor. Students must complete indicate intent to participate, complete UCCS registration, pay the \$75.00 tuition, and complete the D20 Concurrent Enrollment Agreement. The Extended Studies office will help students do this.

Semester 1 of this class will run from September 3 – December 17. For semester 1, this course has 5 required in person class meetings: September 3, September 24, October 1, October 8, and October 29. Each of these classes will be from 4:30pm – 7:00pm, and they will meet at the Academy Online Pilot Program modular classrooms on the Pine Creek High School campus. With the exception of the first and last in-person class meeting, students should be prepared to participate in fitness activities, including cardio and fitness testing. The course also has online components through the UCCS online system to be accessed regularly. Students should budget 5 hours per week for this course.

Semester 2 of this class will run from January 21 – May 5. For semester 2, this course has 5 required in person class meetings: January 21, February 11, February 18, February 25, and March 10. Each of these classes will be from 4:30pm – 7:00pm, and they will meet at the Academy Online Pilot Program modular classrooms on the Pine Creek High School campus. With the exception of the first and last in-person class meeting, students should be prepared to participate in fitness activities, including cardio and fitness testing. The course also has online components through the UCCS online system to be accessed regularly. Students should budget 5 hours per week for this course.

Course Fees

University of Colorado, Colorado Springs credit (REQUIRED): \$75.00 (3 total credits)

Corresponding UCCS course: HSCI 1020, Personal Fitness & Wellness

SCUBA DIVING

Students will receive instruction in basic scuba to include the classroom and pool training portion of the P.A.D.I open water diver course. Additionally, students will receive instruction in advanced swimming techniques.

This course meets online from April 25 – May 13. It also meets in person on April 30 and May 7 from 8:00am – 6:00pm at Underwater Connection on Garden of the Gods and I-25. Students should budget 3 hours per week for online course work during this course meeting time. Students are highly encouraged to obtain their SCUBA certification, which they can do through a trip sponsored by Underwater Connection or another self- or family-organized trip; the instructor will provide details and options for this certification trip.

Course Fees

- Materials & Pool Fee: \$239.00
- Diving trip for certification (optional): Approximately \$175.00

Science

Course	Grade	HS Credits	Meets HEAR?	Prerequisite	Weighted Grade?	Format	Course Dates	Dual College Credit?
Chemistry	10-12	2	Yes	Algebra 1	No	Online	August 17 – June 1 (or last day for students)	No
CSI: Fact or Fantasy?	9-12	1	No	None	No	Hybrid	September 1 – December 15	No
General Physics 1, Calculus-Based	11-12	1	No	AP Calculus BC; Honors or AP Physics 1 is highly recommended	Yes	Hybrid	August 17 – December 18	Yes
Honors Medical Interventions	9-12	2	Yes	None	Yes	Hybrid	Not currently offered for 2015-16	Yes
Oceanography	9-12	1	Yes	None	No	Hybrid	August 17 – December 18	No

CHEMISTRY

Chemistry is the study of the properties, changes and interactions of matter. Topics covered include principles of chemical change, chemical formulas, equations and their application, atomic theory, the Periodic Table, acids and bases, phases of matter, solutions, and thermodynamics. There is a significant laboratory component to this course as well as the ability to use mathematics to solve problems. This course is an NCAA approved class.

This course meets entirely online. Students should budget 5 hours per week for course work.

Course Fees

None

Extended Studies at Academy Online High School

CSI: FACT OR FANTASY?

This is a UCCS class provided by the CU Succeed Platinum program; the course is taught by a UCCS instructor. Following is the UCCS course description: The prevalence and popularity of movies and television shows dealing with forensic investigation of crimes has created a gap between reality and fantasy. This course exposes some of the inaccuracies, exaggerated uses, and interpretation of forensic tools.

This is a CU Platinum course hosted by Extended Studies at Academy Online and the D20 Career & Tech Ed. Department. These courses are all taught in a hybrid format by a UCCS instructor. Students must complete indicate intent to participate, complete UCCS registration, pay the \$75.00 tuition, and complete the D20 Concurrent Enrollment Agreement. The Extended Studies office will help students do this.

This course meets every Wednesday from 4:30 – 7:00pm, starting on September 2, 2015 and ending on December 16, 2015 (with no class during Thanksgiving break). In-person class meetings will be at the Academy Online Pilot Program modular classrooms on the Pine Creek High School campus. The course also has online components through the UCCS online system to be accessed regularly. Students should budget approximately 5 hours per week for this course.

Course Fees

- University of Colorado, Colorado Springs credit (REQUIRED): \$75.00 (3 total credits)
Corresponding UCCS course: CJ 1002, CSI: Fact or Fantasy?

GENERAL PHYSICS 1, CALCULUS-BASED

Rigorous calculus-level course in classical physics for science and engineering students. Includes measurements, vectors, motion in one dimension, motion in three dimensions, particle dynamics, work and energy, linear and angular momentum, rotation of rigid bodies, static equilibrium, oscillation, and gravity.

This course will meet approximately every two weeks for labs after school hours at dates and times listed below. The location for these labs will be at Discovery Canyon High School in Room 322. Students should consult the course materials and/or instructor for information on attendance policies for these in-person meetings. The course also has online components to be accessed regularly. Students should budget 7 hours per week for course work.

- **Thursday, August 27, 3:30pm—5:00pm**
Room 322, Discovery Canyon High School, 1810 Northgate Boulevard
- **Thursday, September 10, 3:30pm—5:30pm**
Room 322, Discovery Canyon High School, 1810 Northgate Boulevard
- **Thursday, September 24, 3:30pm—5:30pm – FIRST EXAM**
Room 322, Discovery Canyon High School, 1810 Northgate Boulevard

Extended Studies at Academy Online High School

- **Thursday, October 8, 3:30pm—5:30pm**
Room 322, Discovery Canyon High School, 1810 Northgate Boulevard
- **Thursday, October 22, 3:30pm—5:30pm**
Room 322, Discovery Canyon High School, 1810 Northgate Boulevard
- **Thursday, November 5, 3:30pm—5:30pm – SECOND EXAM**
Room 322, Discovery Canyon High School, 1810 Northgate Boulevard
- **Thursday, November 19, 3:30pm—5:30pm**
Room 322, Discovery Canyon High School, 1810 Northgate Boulevard
- **Thursday, December 3, 3:30pm—5:30pm (MAKE-UP CLASS IF NECESSARY)**
Room 322, Discovery Canyon High School, 1810 Northgate Boulevard
- **Thursday, December 17, 3:30pm—5:30pm – FINAL EXAM**
Room 322, Discovery Canyon High School, 1810 Northgate Boulevard

Course Fees

- University of Colorado, Colorado Springs credit (REQUIRED): \$75.00 (4 total credits)
Corresponding UCCS course: PES 1110, General Physics 1, Calculus-based
- Textbook Cost TBD
- Lab fees of approximately \$20 may apply.

HONORS MEDICAL INTERVENTIONS (NOT CURRENTLY OFFERED FOR 2015-2016)

Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

This course requires attendance at in-person meetings approximately once every two weeks. Students should budget an additional 5 hours per week for related online course work.

Course Fees

- Materials: TBD
- University of Colorado, Colorado Springs credit (optional): \$75.00 (3 total credits)
Corresponding UCCS course: HSCI 1620, Medical Interventions

Extended Studies at Academy Online High School

OCEANOGRAPHY

Oceanography will cover mainly the physical aspects of the subject including: water chemistry, sea water chemistry, ocean currents and their effect on global weather and climate, ocean waves and their effect on erosion, El Nino/La Nina, seafloor bathymetry, exploration of our oceans, and an in-depth study on the effects of oceans on climate change and vice versa. This will be a lab-based class.

This course meets entirely online with eight scheduled after school in-person hands-on labs in Room 419 at Discovery Canyon High School; students must attend four of the eight in-person labs—the first required meeting counts as one of these required labs. Dates and times for these labs are listed below. Students should budget 5 hours per week for course work.

- **Tuesday, August 25, 3:00pm—4:30pm:** Course Introduction (REQUIRED)
Room 419, Discovery Canyon High School, 1810 Northgate Boulevard
- **Tuesday, September 1, 3:00pm—4:30pm**
Room 419, Discovery Canyon High School, 1810 Northgate Boulevard
- **Wednesday, September 16, 3:00pm—4:30pm**
Room 419, Discovery Canyon High School, 1810 Northgate Boulevard
- **Wednesday, September 30, 3:00pm—4:30pm**
Room 419, Discovery Canyon High School, 1810 Northgate Boulevard
- **Tuesday, October 6, 3:00pm – 4:30pm**
Room 419, Discovery Canyon High School, 1810 Northgate Boulevard
- **Tuesday, October 27, 3:00pm—4:30pm**
Room 419, Discovery Canyon High School, 1810 Northgate Boulevard
- **Tuesday, November 10, 3:00pm—4:30pm**
Room 419, Discovery Canyon High School, 1810 Northgate Boulevard
- **Tuesday, December 1, 3:00pm—4:30pm**
Room 419, Discovery Canyon High School, 1810 Northgate Boulevard

Course Fees

None

Social Science

Course	Grade	HS Credits	Meets HEAR?	Prerequisite	Weighted Grade?	Format	Course Dates	Dual College Credit?
AP® Economics	11-12	2	Yes	None	Yes	Online	Not currently offered for 2015-16	Yes
AP® Human Geography	9-12	2	Yes	None	Yes	Hybrid	Not currently offered for 2015-16	Yes
Civics & Law	9-12	1	Yes	None	No	Online	January 6 – June 1 (or last day for students)	No
Colorado History	9-12	1	Yes	None	No	Online	August 17 – December 18	No
Extended Studies for Advanced Social Studies Learners	11-12	1	No	Concurrent enrollment in an honors, AP®, or IB science course	No	Online	Not currently offered for 2015-16	No
International Relations	11-12	1	No	None	No	Online	January 6 – June 1 (or last day for students)	Yes
Personal Finance	9-12	1	No	None	No	Online	August 17 – December 18	Yes
Social Problems - UCCS	9-12	1	No	None	Yes	Hybrid	January 20 – May 4	Yes
US History	11-12	2	Yes	None	No	Online	August 17 – June 1 (or last day for students)	Yes – up to 6 credits

AP® ECONOMICS (NOT CURRENTLY OFFERED FOR 2015-2016)

AP® Economics meets the objectives of a college level course in microeconomics and macroeconomics. Heavier emphasis is placed on macroeconomics. Topics covered include the major economic theories/models used by economists and national policy makers. Students are highly encouraged to take the AP® exam. This course is an NCAA approved class.

This course meets entirely online. Students should budget 7 to 10 hours per week for course work.

Course Fees

- AP® exam fee: approximately \$95.00 (taking the AP® exam is highly encouraged)
- University of Colorado, Colorado Springs credit (optional): \$75.00 (3 total credits)
Corresponding UCCS course: ECON 2020, Introduction to Macroeconomics

Extended Studies at Academy Online High School

AP® HUMAN GEOGRAPHY (NOT CURRENTLY OFFERED FOR 2015-2016)

This class is an advanced survey of college-level Human Geography and is designed to prepare students for the Advanced Placement® test in May. Topics include population and migration; culture and language; religion and ethnicity; agriculture and rural land use; industrialization and economic development; and urban land use. Students should have satisfactorily completed the prerequisites. There will be one mandatory field trip each semester, each with a small transportation fee. This course is an NCAA approved class.

This course requires attendance at one in person field trip per semester with a follow-up discussion as well as online components to be accessed regularly. Students should budget 7 to 10 hours per week for course work.

Course Fees

- Field Trip Fee: TBA
 - AP® exam fee: approximately \$95.00 (taking the AP® exam is highly encouraged)
 - University of Colorado, Colorado Springs credit (optional): \$75.00 (4 total credits)
Corresponding UCCS course: GES 1990, Introduction to Human Geography
-

CIVICS & LAW

Civics and Law provides a basic understanding of the design and operation of federal, state, and local governments. Relationships between the citizen and the government are explored, and the student develops an understanding of the significant role of the citizen in American democracy. The students become familiar with the American legal system and their rights and responsibilities as citizens. This is an NCAA approved class.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

None

COLORADO HISTORY

This course is designed to offer the learner an opportunity to better understand Colorado's history and diverse geography. Learners will study and develop an appreciation for Colorado's pre-history, Native Americans, frontier life, settlers, politics, and a variety of peoples who inhabit this beautiful state. The learner will be expected to know Colorado's physical geography including its mountains, plains, valleys, plateaus, mesas, and rivers. The learner will be able to explain and understand Colorado's economic base and diversification. The learner will come to know the many people who have contributed to the state's and nation's history. The learner will be able to identify Colorado's towns and cities and analyze the challenges facing Colorado today and in the future. This is an NCAA approved class.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

None

EXTENDED STUDIES FOR ADVANCED SOCIAL STUDIES LEARNERS (NOT CURRENTLY OFFERED FOR 2015-2016)

Extended Studies for Advanced Learners is a course designed to support students in AP®, IB, and/or honors courses. The course may be used for extension of the parent course content and/or general support for advanced learners in AP®, IB, and/or honors courses.

Students who are attempting an AP® social studies course for the first time and would benefit from another avenue to practice skills, extend critical thinking, and examine in more depth the concepts being taught in the AP® class would be a great fit for this course. Students would also benefit from working with another teacher of that AP® course and other students from around the district who could provide different perspectives.

This course meets entirely online. Students should budget approximately 3 hours per week for course work.

Course Fees

None

INTERNATIONAL RELATIONS

In the International Relations class, students develop an understanding of current international politics and develop a basis for analyzing and evaluating decisions that affect the world states. Global interdependency is stressed in political, economic, and social relationships. This course is an NCAA approved class. This is an NCAA approved class.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

- University of Colorado, Colorado Springs credit (optional): \$75.00 (3 total credits)
Corresponding UCCS course: PSC 2070, Introduction to International Relations
-

PERSONAL FINANCE

This course surveys the basic personal financial needs and emphasizes the basics of budgeting, saving, checking, investments, credit, the wise use of insurance, and paying and preparing income tax returns.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

University of Colorado, Colorado Springs credit (optional): \$75.00 (3 total credits)
Corresponding UCCS course: FNCE 1200, Personal Financial Planning

SOCIAL PROBLEMS - UCCS

This is a UCCS class provided by the CU Succeed Platinum program; the course is taught by a UCCS instructor. Following is the UCCS course description: An introduction to the sociological perspective on social issues and problems such as deviance, race and ethnic relations, aging, crime and delinquency, war, drug abuse, alienation, mental illness, etc. Approved for LAS Social Science area requirement. Approved for Compass Curriculum requirement: Explore-Society, Health and Behavior.GT-SS3.

This is a CU Platinum course hosted by Extended Studies at Academy Online and the D20 Career & Tech Ed. Department. These courses are all taught in a hybrid format by a UCCS instructor. Students must complete indicate intent to participate, complete UCCS registration, pay the \$75.00 tuition, and complete the D20 Concurrent Enrollment Agreement. The Extended Studies office will help students do this.

This class will run from January 20 – May 4, and it meets every Wednesday from 4:30pm – 7:00pm at the D20 Education and Administration Building (1110 Chapel Hills Drive). Students should budget 5 hours per week for this course.

Course Fees

University of Colorado, Colorado Springs credit (REQUIRED): \$75.00 (3 total credits)

Corresponding UCCS course: SOC 2500, Social Problems

US HISTORY

US History/Geography is a survey course of US History from the pre-colonial period to the present. The course is designed to develop an understanding of the birth and growth of the US to include people of varied backgrounds. Emphasis is placed on the cause and effect of relationships found throughout our nation's history and geographical development as well as relationships between history and politics/economics. This course is an NCAA approved class.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

University of Colorado, Colorado Springs credit (optional): \$75.00 **per course** (3-6 total credits)

Corresponding UCCS courses: HIST 1530, U.S.: Emergence of Modern America, 1865-1920 (Semester 1)
and/or HIST 1540, U.S.: Recent America, 1918 – Present (Semester 2)

World Languages

Course	Grade	HS Credits	Meets HEAR?	Prerequisite	Weighted Grade?	Format	Course Dates	Dual College Credit?
American Sign Language	9-12	2	Yes	None	No	TBD	Not currently offered for 2015-16	Yes
Latin 1	9-12	2	Yes	None	No	Online	Not currently offered for 2015-16	Yes

AMERICAN SIGN LANGUAGE (NOT CURRENTLY OFFERED FOR 2015-2016)

American Sign Language is a manual language which entails vocabulary, grammar, sentence structure, and body movement to express meaning for communication. Lessons or units also include cultural aspects to help the student understand and interact with the Deaf. Students are introduced to these aspects in units, which are ordered in a manner to build upon the previous units. Lessons are structured around language needed or common life situations. Major concepts are reinforced through reading materials, video, cooperative learning activities, and long-term assignments. All assignments are introduced to fulfill District 20's standards for world language. This course is an NCAA approved class.

This course may have required in-person meetings; details on those meetings will be announced by June 15, 2015. TBD. Students should budget approximately 5 hours per week for course work. Students must have access to a webcam or technology that will enable them to record their signing movements and post them for teacher review.

Course Fees

University of Colorado, Colorado Springs credit (optional): \$75.00 (4 total credits)

Corresponding UCCS course: ASL 1010, American Sign Language 1

LATIN 1 (NOT CURRENTLY OFFERED FOR 2015-2016)

Students learn to communicate in Latin using various methods. Simple conversational language and grammar related to personal interests and Latin culture are used to draw connections and make comparisons. This course is an NCAA approved class.

This course meets entirely online. Students should budget approximately 5 hours per week for course work.

Course Fees

University of Colorado, Colorado Springs credit (optional): \$75.00 (4 total credits)

Corresponding UCCS course: LAT 1010, Beginning Latin 1