

Coconino High School

Course Catalog 2020-21

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Coconino High School Course Requirements

Students must earn 22 credits (16 required and 6 electives) and meet state mandated assessments. Three academic tracks include: graduation track, college bound track, or AP track. Each student will develop a 4-year plan (ECAP) identifying the sequence of courses needed to graduate.

Graduation Track: The graduation track consists of the minimum requirements needed in order for a student to graduate from high school. A high school diploma is required in order for a person to enter the military, enroll in a technical or trade school, and/or enter community college.

University Track: The university track consists of the minimum requirements needed in order for a student to graduate from high school and be admissible to NAU, ASU or the U of A. Students who plan to attend an out of state public or private university should check admission requirements for those institutions. We partner with CCC to offer college credits for classes listed as Dual Enrollment (DE). Please note, most academic DE courses require placement testing the semester prior to the start of the course.

AP Track: The AP track consists of graduating from high school, having completed more rigorous classes to possibly earn college credits. In order to earn college credits for AP classes, a student must earn a three or higher on the test. Please note, most AP classes require summer assignments and teacher recommendation.

The following table lists the number of credits needed in each subject area, minimum grade point average needed, and state mandated assessments that apply. Many subjects require a particular sequence to be followed.

Curriculum	Standard Track	University/AP Track
ENGLISH	4	4
MATH	4	4
SCIENCE	3	3 lab science courses
SOCIAL STUDIES	3	3
FINE ARTS/CAREER TECHNICAL EDUCATION (CTE)	1	1 fine arts course
PHYSICAL EDUCATION/HEALTH	1	1
MODERN LANGUAGE	0	2 (3 recommended)
ELECTIVE COURSES	6	4
TOTAL REQUIRED COURSES	22	22
GRADE POINT AVERAGE	No minimum GPA	3.0+ (ACT/SAT testing required)
	Pass Civics Exam	Pass Civics Exam

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English Courses

Please consult with a counselor to determine the courses that meet individual needs.

	Graduation	University	AP	IB Diploma
9th Grade	English 9	English 9 or Honors English 9	Honors English 9	English 9 or Honors English 9
10th Grade	English 10	English 10 or Honors English 10	Honors English 10	English 10 or Honors English 10
11th Grade	English 11 or DE English 11	English 11 or DE English 11	AP English Literature & Composition	IB English 11 Language & Literature High Level (HL)
12th Grade	English 12 College & Career Ready or DE English 12	English 12 College & Career Ready or DE English 12	AP English Language & Composition	IB English 12 Language & Literature High Level (HL)

English 9

Grades: 09

College Prep: Yes

Credit: 1.0

Duration: 1 year

EN50A/B

Fee:

This course will integrate basic reading, writing, listening and speaking skills through the survey of literature comprised of novels, short stories, poetry, drama and nonfiction choices. Activities will focus on the incorporation and application of composition, vocabulary development, speech, literary elements and language fundamentals. Texts are selected to build upon students' prior learning, to improve reading strategies and to encourage critical thinking. Students will utilize a writing process as they compose various forms of writing.

Honors English 9

Grades: 09

College Prep: Yes

Credit: 1.0

Duration: 1 year

EN55A/B

Fee:

Summer reading is required for all students entering the class. This is a course for those who have shown above average ability and motivation to progress through future AP English courses. Students will work with a variety of challenging literary forms including short stories, novels, poetry, drama and nonfiction. Activities will incorporate the humanities, composition, application of terminology, speech, independent reading, growth in academic responsibility, clarification of language skills, grammar in action, alternative assessment strategies, vocabulary building, and learning options that will address various learning styles. Prerequisite: Honors Agreement Form. **Required summer reading is *I Am Malala*.**

English 10

Grades: 10

College Prep: Yes

Credit: 1.0

Duration: 1 year

EN60A/B

Fee:

English 10 integrates reading, writing, listening and speaking. Students will focus on persuasive and analytical writing. They will study vocabulary, grammar, figurative language and writing techniques while analyzing global literature from the 20th century to prepare them for future high school and college courses.

Honors English 10

Grades: 10

College Prep: Yes

Credit: 1.0

Duration: 1 year

EN65A/B

Fee:

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Honors English 10 requires summer reading. It integrates reading, writing, listening and speaking. It is designed to challenge students' thinking through units in fiction, mythology, nonfiction, poetry and drama. Considerable opportunities in both writing and speaking give the advanced students greater opportunities to polish their skills. Writing focuses on debatable topics, literary texts and non-fiction texts. Vocabulary study, intensive outside reading and writing assignments are an expectation for honors coursework. Prerequisite: AP Agreement Form and Summer Reading Assignment.

English 11

EN70A/B

Grades: 11 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:**

English 11 features American Literature and foundational texts through the 20th century. The text includes prose, poetry, fiction, non-fiction, and drama. Literary selections build on students' previous studies and provide exposure to difficult texts. Writing focuses on the standards and includes grammar and usage skills development.

AP English Literature & Composition

EN90AW/BW

Grades: 11 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:**

Students in AP English will have required summer reading and are expected to take the AP exam in May. Advanced Placement English Literature is designed to allow students to study college-level composition and literature at the high school level. Students practice the skills of close reading, critical writing and analytical discussion in an atmosphere of academic challenge. This course is designed for the serious college bound student and allows not only preparation for college but also the chance to earn college credit and/or advanced standing by taking the AP English Literature Exam. We will follow the curricular requirements in the AP English course description. Prerequisite: AP Agreement Form.

AP English Language & Composition

EN91AW/BW

Grades: 12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:**

Students in AP English Language and Composition is to enable students to write effectively and confidently in their college courses and in their professional and personal lives. The course emphasizes the synthesis, analytical, and argumentative writing that forms the basis of academic and professional communication. Additionally, students read complex text with critical attention to a writer's purpose and rhetorical strategies. This course is designed for the serious college bound student and allows not only preparation for college, but also the chance to earn college credit and/or advanced standing by taking the AP English Language Exam. Prerequisite: AP Agreement Form.

DE English 11

EN75A/B

Grades: 11 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** DE fee may apply

English 101 is a three-credit-hour survey course that introduces students to critical reading and writing in the academic community. Throughout the semester we practice the *reading process*: generating questions or deriving answers from texts; summarizing texts; identifying examples, drawing inferences, and making logical or comparative connections; organizing information in a variety of ways; seeing and learning rhetorical skills used by effective writers; and evaluating the merits of what we read. At the same time, we practice the *writing process*: identifying audience and purpose; gathering or finding ideas; organizing and interrelating those ideas for readers; drafting in order to develop, support, and illustrate ideas; revising from trial-and-error and in light of peer input; editing for clarity and accuracy. Prerequisite: Qualifying score on the ACT or Accuplacer test.

English 12 College and Career Ready

EN85A/B

Grades: 12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:**

College and Career is for college-bound seniors. The course stresses literary analysis, research and composition in addition to goal setting, self-motivation, and personal responsibility. This course requires students to read closely, analyze and respond to a variety of literary genres and journal prompts, review usage and style, and focus on vocabulary development while engaging with challenging writing assignments.

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DE English 12

Grades: 12

College Prep: Yes

Credit: 1.0

Duration: 1 year

EN95A/B

Fee: DE fee may apply

Continued development of ideas and strategies used in ENG 101/DE 11. Extensive practice in critical thinking, reading, and writing with an emphasis on composing analytical essays on literary topics and two documented research papers. Prerequisite: English 101 or 3 or higher on AP English 11 test. Three Lecture Hours.

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Math Courses

Please consult with a counselor to determine the courses that meet individual needs.

	Graduation	University	AP	IB Diploma
9th Grade	Algebra I	Algebra I, Geometry Geometry	Honors Geometry	Algebra I, Geometry, Honors Geometry DE College Math, DE Pre-Calc
10th Grade	Geometry	Geometry, Algebra II, Honors Geometry, Honors Algebra II, (DE) Pre-Calculus	Honors Algebra II, (DE) Pre-Calculus Algebra II	Geometry, Honors Geometry, Honors Algebra II (DE) Pre-Calculus (DE) College Math, (DE) Pre-Calculus
11th Grade	Algebra II	Honors Algebra II, (DE) Pre-Calculus, (DE) College Math, (DE) Pre-Calculus AP Calculus IAB	AP Calculus IAB, AP Calculus IIBC, AP Statistics	IB Math 11 Standard Level (SL) or IB Math 11 High Level (HL)
12th Grade	Algebra I, Geometry, Honors Geometry	Geometry, Honors Geometry, Algebra II, Honors Algebra II, (DE) Pre-Calculus	AP Calculus IAB,, AP Statistics	IB Math 12 Standard Level (SL) or IB Math 12 High Level (HL)

Algebra I

Grades: 08 -10

College Prep: Yes

Credit: 1.0

Duration: 1 year

MA50A/B

Fee:

This course focuses on the formal definition of functions with particular emphasis on deepening and extending the understanding and application of linear, quadratic and exponential functions. Students will also graph these functions, identify key features, and make use of function transformations. The Arizona Standards for Algebra 1 also include applying linear models to data that exhibit a linear trend as seen through statistics. Appropriate technology will be used to enhance mathematical understanding and problem solving skills. Prerequisite: Completion of 8th Grade Math (MA82) or Accelerated 7/8 Math (MA11H)

Honors Algebra I

Grades: 09-10

College Prep: Yes

Credit: 1.0

Duration: 1 year

MA55A/B

Fee:

This course focuses on the formal definition of functions with particular emphasis on deepening and extending the understanding and application of linear, quadratic and exponential functions. Students will also graph these functions, identify key features, and make use of function transformations. The Arizona Standards for Algebra 1 also include applying linear models to data that exhibit a linear trend as seen through statistics. Appropriate technology will be used to enhance mathematical understanding and problem solving skills. Beyond the standard Algebra 1 curriculum, students

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in Honors Algebra 1 will synthesize skills from critical areas to complete complex application tasks as well as adhere to a higher expectation of understanding and justification of their work in preparation for future Advanced Placement coursework in mathematics. Honors Algebra I (course number MA55HA/B) Prerequisite: Completion of Accelerated 7/8 Math (MA11H) or 8th Grade Math (MA82) and teacher recommendation. Honors Algebra 1 is open to students in grades 8 and 9.

Geometry

MA60A/B

Grades: 09 -11

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

This course aligns with the Arizona Standards for Geometry by extending the informal geometry work from grade 8 along with the formal mathematics of Algebra 1 in a rich and rigorous learning experience. The geometry course focuses on five critical areas: congruence of geometric figures based on rigid motions, similarity of geometric figures based on dilations and proportional reasoning, develop an understanding of informal explanations of circumference, area, and volume formulas, proving geometric theorems, and solve problems involving right triangles. Students will be expected to explain their reasoning and critique the reasoning of others through discourse, writing and modeling. Appropriate tools and technology will be used to enhance mathematical understanding. Prerequisite: 1 credit of Algebra 1 (MA50 A/B)

Foundation in Mathematics

MA72A/B

Grades: 11

College Prep: No

Credit: 1.0

Duration: 1 year

Fee:

This course is designed to extend the learning begun in Algebra I and Geometry. Students will deepen their understanding of basic algebra through concept development and application. This course is only for students who have a Personal Curriculum on file at the school. Prerequisite: Personal Curriculum Application and completed of Algebra I and Geometry.

Survey of Mathematics

MA80A/B

Grades: 12

College Prep: No

Credit: 1.0

Duration: 1 year

Fee:

This course is designed to fulfill the senior year math requirement for students who have a Personal Curriculum on file at the school. This course will integrate traditional advanced algebra topics with real world applications and technology. A variety of skills from the areas of financial mathematics, applied mathematics, probability and statistics will be included. Students may be expected to complete projects incorporating many of the concepts addressed throughout the year. Prerequisite: Personal Curriculum and credit for Algebra 1 and Geometry.

Honors Geometry

MA65HA/B

Grades: 09-10

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

This course aligns with the Arizona Standards for Geometry by extending the informal geometry work from grade 8 along with the formal mathematics of Algebra 1 in a rich and rigorous learning experience. The geometry course focuses on five critical areas: congruence of geometric figures based on rigid motions, similarity of geometric figures based on dilations and proportional reasoning, develop an understanding of informal explanations of circumference, area, and volume formulas, proving geometric theorems, and solve problems involving right triangles. Students will be expected to explain their reasoning and critique the reasoning of others through discourse, writing and modeling. Appropriate tools and technology will be used to enhance mathematical understanding.

Beyond the standard Geometry curriculum, students in honors geometry will synthesize skills from critical areas to complete complex application tasks as well as adhere to a higher expectation of understanding and justification of their work in preparation for future advanced placement coursework in mathematics. Prerequisite: 1 credit of Algebra 1 and teacher recommendation (MA50 A/B) Honors Agreement Form

Algebra II

MA70A/B

Grades: 10-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

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Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, radical, logarithmic, exponential, and trigonometric functions. The algebra 2 course focuses on four critical areas: extending the real number system to the complex number system, solving and interpreting solutions to a variety of equations, inequalities, and systems of equations, demonstrate competency graphing and interpreting the functions referenced above, and extend simple and compound probability calculations to conditional probability. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Prerequisite: 1 credit of Algebra 1 and 1 credit of Geometry (or pre-AP Geometry/Pre-AP Algebra 1) and teacher recommendation.

Honors Algebra II

MA75HA/B

Grades: 10-11

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, radical, logarithmic, exponential, and trigonometric functions. The algebra 2 course focuses on four critical areas: extending the real number system to the complex number system, solving and interpreting solutions to a variety of equations, inequalities, and systems of equations. demonstrate competency graphing and interpreting the functions referenced above, and extend simple and compound probability calculations to conditional probability. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Beyond the standard Algebra 2 curriculum, students in honors algebra 2 will synthesize skills from critical areas to complete complex application tasks as well as adhere to a higher expectation of understanding and justification of their work in preparation for future advanced placement coursework in mathematics. Prerequisite: 1 credit of Algebra 1 and 1 credit of honors geometry and a teacher recommendation. Honors Agreement Form

Pre-Calculus (with Dual Enrollment option)

MA96HA/B

Grades: 10-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

Students will extend their understanding of previously studied topics in the Algebra II curriculum such as complex numbers, functions, polynomials and rational functions, translations, exponential and logarithmic functions, trigonometry unit circle. Additionally, students will explore concepts in trigonometry (including analytic trig, and additional topics in trigonometry), conic sections, matrices and determinants, binomial expansion, vectors and applications, sequences and series. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Students will synthesize skills from critical areas to complete complex application tasks as well as adhere to a higher expectation of understanding and justification of their work in preparation for future advanced placement coursework in mathematics.

Prerequisite: Successful completion of honors algebra II or algebra II **and** teacher recommendation.

College Mathematics (with Dual Enrollment option)

MA86AW/BW

Grades: 11-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

This course is designed to build student awareness and develop a positive attitude, understanding, and confidence using mathematics in the content areas of finance, growth, probability, statistics, and common applications encountered in society. This class is not recommended for students who intend to take Pre-Calculus the following year. A passing score on the mathematics placement test from Coconino Community College, a score of 450 on the SAT, or a score of 17 on the ACT mathematics sections is required to qualify for dual enrollment credit with CCC (MAT 140). Prerequisite Successful completion of Algebra II (MA70A/B)

AP Calculus IAB

MA98AW/BW

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Grades: 11 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course will cover first semester college calculus and provides a study of the concepts of function, limit, continuity, derivative, integral and their applications to real-world situations. Students will synthesize skills from critical areas to complete complex application tasks as well as adhere to a higher expectation of understanding and justification of their work. Students may earn 3-6 hours college credit based on the score received on the National Advanced Placement Calculus A/B exam. All students are expected to take the exam. Prerequisite successful completion of Pre-AP Pre-Calculus and AP Agreement form.

AP Calculus IIBC **(Not offered during the 2020-21 school year)** **MA102AW/BW**

Grades: 11-12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course will review the entire year of AP Calculus the first semester, and then will cover the second semester college calculus topics such as integration by parts, improper integrals, partial fractions, infinite series, and conics. Students will synthesize skills from critical areas to complete complex application tasks as well as adhere to a higher understanding of explanation and justification of their work. Students may earn 3-6 hours college credit based on the score received on the National Advanced Placement Calculus B/C exam. All students are expected to take the exam. Prerequisite: successful completion of AP Calculus 1 and AP Agreement form.

AP Statistics **MA99AW/BW**

Grades: 11 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course will be equivalent to a non-calculus based college course in statistics. Students will be expected to plan and conduct a study from which they will do an analysis and make statistical inferences. Students may earn 3 hours college credit if they pass the National Advanced Placement Statistics test. All students are expected to take the AP exam. Prerequisite: successful completion of Algebra II and teacher recommendation and AP Agreement Form.

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Science Courses

4-Year Science Flow Chart			
	Graduation 3 Years of Science	College Bound or IB 4 Years of Science	CIT and/or IB 4-5 Years of Science
9th Grade	Life Science or Biology	Life Science, Biology, Chemistry	Honors Physics
10th Grade	Biology or Earth Science	Biology, Chemistry, Earth Science	Honors Chemistry
11th Grade	Chemistry or Environmental Science	Chemistry, Physics, Earth Science or IB Biology 11	Physics, AP Environmental Science, AP Physics, AP Chemistry IB Biology 11
12th Grade		Physics, AP Physics or IB Biology 12	AP Environmental Science, AP Physics, AP Chemistry IB Biology 12

Advanced Science Courses	
Offered SY 2020-21	Offered 2021-22
Oceanography	AP Environmental Science (APES)
AP Physics 1	AP Physics 2
AP Chemistry	
Honors Anatomy & Physiology	

Life Science

SC46A/B

Grades: 9

College Prep: No

Credit: 1.0

Duration: 1 year

Fee: none

Life Science is an introduction to biology course. Students develop problem-solving skills and strategies while performing laboratory and field investigations of fundamental biological concepts and principles. Topics will include the study of cells, genetics, classification of living things, and ecology. This course will help students prepare for the science AIMS test. Upon successful completion of Life Science, students will receive one credit which fulfills one of the three science credits required for graduation from CHS. Life science is not, however, accepted by the AZ Board of Regents as one of the three science classes needed for unrestricted admission into one of the state's four year colleges.

Environmental Science

SC91A/B

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Grades: 11-12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:** none

This course is a survey of fundamental topics in Environmental Science, and builds on concepts from Life and Physical Science. It will also introduce concepts from Earth Science and Chemistry. This course will help the student incorporate these concepts into a strong system-level understanding of our planet and the impacts of human society. Upon successful completion of Environmental Science, students will receive one credit which fulfills one of the three science credits required for graduation from CHS. Environmental science is not, however, accepted by the AZ Board of Regents as one of the three science classes needed for unrestricted admission into one of the state's four year colleges.

Earth Science **SC54A/B**

Grades: 10 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$15.00

This laboratory course places an emphasis on physical geology. The Earth's origin, structure, and composition will be covered, as well as dynamic features such as volcanoes, plate tectonics, and earthquakes. Activities include data collection, modeling, map reading, identifying rocks and minerals. The local geology of the Flagstaff area and the Grand Canyon is also examined.

Biology **SC60A/B**

Grades: 08 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$15.00

This is an introductory course in Biology which emphasizes the learning of problem-solving skills through scientific inquiry and laboratory activities. Topics include taxonomy, cell biology and metabolism, genetics, ecology, evolution. This course is a lab science. Fee required. Prerequisite: Successful completion of Algebra I or concurrent enrollment.

Chemistry **SC70A/B**

Grades: 10 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$25.00

Chemistry 1 involves extensive laboratory experiences that encourage the discovery approach to learning science. The course is designed to give students a practical foundation for everyday applications of chemistry and skills necessary for further growth in science and related fields. Opportunities to experience concepts will come through a variety of learning techniques, such as laboratory experiments, problem solving, lecture/discussion, etc. This class is a lab science; there will be daily homework.

Prerequisites: Students enrolling in Chemistry should have successfully passed Biology. Algebra 1 or concurrent enrollment in Honors Algebra I.

AP Chemistry **SC99AW/BW**

Grades: 11-12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$25.00

This Advanced Placement course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. The AP Chemistry course is designed to be taken only after the successful completion of high school chemistry 1. Topics include Atomic theory and atomic structure, chemical bonding, molecular models, behavior of gases, solutions, and solids, chemical reactivity and stoichiometry, chemical kinetics, thermodynamics, and dynamic equilibrium. Approximately 20% of the course is dedicated to laboratory experiments.

Prerequisites: Teacher recommendation and instructor approval. Students enrolling in AP Chemistry should have successfully completed Algebra 2 with a C or better, with the *suggested* enrollment in Pre-Calculus or higher. Students enrolling in AP Chemistry must also have completed Chemistry 1 with a B or better or have prior instructor approval. AP Agreement Form.

Oceanography **SC58AW/BW**

Grades: 11 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$25.00

Oceanography is an upper-level science class for juniors and seniors only and thoroughly examines the biological, geological, chemical and physical aspects of the world's oceans. Oceanographic science will be explored through hands-on laboratory experiences, data analysis of current scientific studies, and student-led research on a variety of

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topics. A three-day field experience to Catalina Island, California is offered to all students taking this course. Students must meet the prerequisites of having taken a minimum of high school earth science and biology (or equivalent) and passed the classes with at least a "C". Any student who has not completed this requirement will be dropped from the course.

AP Environmental Science (APES) (Not offered during the 2020-21 school year) **SC96AW/BW**
Grades: 11 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$25.00

This course will provide students with opportunities to gain knowledge and skills necessary to understand ecological relationships, environmental problems, and the related societal implications. As an Advanced Placement class, the course is designed to be the equivalent of a one-semester introductory college course in environmental science. Emphasis will be placed on environmental technology, oral and written communication, scientific reporting, and preparation for the AP Exam. Field studies are an integral part of this course, and field trip participation is strongly encouraged. (Prerequisites: This course is open to Juniors and Seniors who have successfully completed Biology and either Chemistry I or Physics I with a current science teacher recommendation)

Anatomy & Physiology **SC90A/B**
Grades: 11 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$25.00

This course is ideal for students who desire to work in medical careers as physicians, nurses, physical therapists, speech pathologists, athletic trainers, nutritionists, and many other avenues. Taking this course in high school provides a head start for college level science curriculum. Some students may take the course because of personal interests or curiosity. The course has prerequisites of passing grades in Biology and Chemistry to be eligible for enrollment. Anatomy and Physiology is perfect for students who desire academic challenges and enjoy hands on and self-directed learning. Prerequisites: Honors Agreement Form

Physics **SC88A/B**
Grades: 10 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$25.00

Physics is a fundamental science dealing with mechanics and energy. Students learn about different forms of energy such as mechanical, electrical, light and sound, by using a variety of learning techniques such as laboratory experiences, problem solving, lectures and film. A large emphasis is placed on the ability to use technology to collect and interpret data and make predictions from models derived in laboratory experiments. Students learn the fundamentals of kinematics and dynamics, circular motion, gravity laws, momentum and conservation of energy. The culmination of this course is a field trip to experience the physics of amusement parks. (Prerequisites: This course is offered to sophomores, juniors and seniors who have successfully completed one other lab science class with a C or better and completed geometry with a C or better with a current science teacher recommendation.).

AP Physics 1 (Offered during the 2020-21 school year) **SC91AW/BW**
Grades: 11 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$25.00

This course will be offered every other year. This Advanced Placement course is a college level, algebra-based study of Newtonian Mechanics (including rotational dynamics and angular momentum) work, energy, power, and mechanical waves and sound. The course will also introduce electric circuits. This course places a heavy emphasis on college-level laboratory work with the extensive use of technology and sensors. Engineering projects will be done throughout the course to help students apply the physics concepts learned in class. Students wishing to take the AP exam to earn AP credit for either algebra or calculus-based physics may elect to take the AP Physics exam in May. AP Physics 1 is the first of a two-year course sequence. Prerequisites: Students enrolling in AP Physics 1 should have completed geometry with a C or better, and be concurrently enrolled in Algebra II or higher. AP Agreement Form.

AP Physics 2 (Not offered during the 2020-21 school year) **SC97AW/BW**
Grade: 11-12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$25.00

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This course will be offered every other year. This Advanced Placement course is a college level, algebra-based study of electricity, magnetism, fluid dynamics, thermodynamics, light, geometric and physical optics, and modern physics. Laboratory work and problem solving is heavily emphasized in this course. Students wishing to take the AP exam to earn AP credit for algebra-based physics may elect to take the AP Physics exam in May. Prerequisites: Students enrolling in AP Physics 2 should have completed geometry with a C or better, and be concurrently enrolled in Algebra II or higher. Students enrolling in AP Physics 2 must also have taken one or more of the following with a C or better: Pre-AP/CIT Physics, Physics, or AP Physics 1. AP Agreement Form.

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Social Studies Courses

Please consult with a counselor to determine the courses that meet individual needs.

4-Year Social Studies Flow Chart				
	Graduation	University	AP	IB
9th Grade	None	None	None	None
10th Grade	World History/Geography	Regular or AP World History/Geography	AP World History	Regular or AP Economics & American Government
11th Grade	U.S. History	Regular or AP U.S. History	AP U.S. History	IB World History Topics High Level (HL)
12th Grade	Economics & American Government	Regular or AP Economics & American Government	AP Microeconomics & AP American Government	IB History of the Americas High Level (HL)

World History/Geography

SS60A/B

Grades: 10-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

World History is a one year survey course designed to give students an overview of the history of the world from approximately 8,000 B.C.E. to the present. Students will examine several themes in history including the interactions between humans and the environment, development and interactions of cultures, state-building, creation and interaction of economic systems, and the development and transformation of social structures. Students should expect to do a significant amount of reading, writing, and research through various projects throughout the school year. Students will also gain an understanding of how to use technology appropriately as the social studies department continues to integrate technology into its courses.

AP World History

SS65AW/BW

Grades: 10

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

Students will understand, discuss, and write intelligently about major global historical developments from 1200 C.E. to the present. Students will develop their ability to interpret primary and secondary sources, compare civilizations, and use geographic and statistical data to draw conclusions about the causes and effects of historical events. This course represents a freshman-level university course and students may receive university credit through the successful completion of the AP World History exam in May. Prerequisite: AP Agreement Form

US History

SS70A/B

Grades: 11-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

US History will allow students to analyze our national experience through time, to recognize the relationships of event and people, and to interpret significant patterns, themes, ideas, beliefs, and turning points in AZ and American history. The course covers the entire course of American History.

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AP US History

SS77AW/BW

Grades: 11

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

AP US History is a year-long class designed to provide an in depth study of the United States History from its beginning roots to the modern era. It prepares students for college level work as well the Advanced placement exam in the spring. All students in the course will be highly encouraged to take the AP Exam for which they can earn college credit. Students will receive a weighted grade for this class only if they complete both terms of the course. Prerequisite: AP Agreement Form and summer reading required.

American Government

SS80

Grades: 12

College Prep: Yes

Credit: 0.50

Duration: 1 semester

Fee:

This course is offered in the senior year as a course to better prepare the senior student for the responsibilities of the adult world. American Government investigates the state and federal government in today's society and the social problems that concern each government. It also provides students with a realistic background for solving and understanding problems that confront the individual. Arizona Government is integrated into the course. This is a one semester class. Students must also enroll in Economics.

AP American Government

SS86W

Grades: 12

College Prep: Yes

Credit: 0.50

Duration: 1 semester

Fee:

Advanced Placement American Government is an in-depth course that offers a critical exploration of the American political process. The college level curriculum explores such topics as constitutional development, political socialization, the impact of interest groups, and interrelationship of the three branches of government. This class also prepares interested students for the Advanced Placement Government exam. This class fulfills 12th grade American Government requirement. Prerequisite: AP Agreement Form and summer reading required.

Economics

SS90

Grades: 12

College Prep: Yes

Credit: 0.50

Duration: 1 semester

Fee:

Free Enterprise is designed to give the student a better understanding of the American economic system. It also provides students with a realistic background for solving and understanding problems that confront the individual. This is a one semester class required for graduation. Students must also enroll in American Government.

AP Microeconomics

SS96W

Grades: 12

College Prep: Yes

Credit: 0.50

Duration: 1 semester

Fee:

This course is an introduction to microeconomics. Microeconomics introduces students to the cost-benefit analysis that is the economic way of thinking. This analysis is used to understand smaller segments of the economy—specifically, consumers and producers—as they interact in output markets and resource markets, and to understand the government's impact on these specific economic units. This course has a strong emphasis on analyzing current events and the practical implementation of economic decisions and policies. The course does fulfill the Arizona's state standards for Economics. Prerequisite: AP Agreement Form.

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ART

(Courses listed qualify for fine art credit)

Art

AR50

Grades: 09 -12 **College Prep:** Yes **Credit:** 0.50 **Duration:** 1 semester **Fee:** \$15.00

This course may be the beginning of an art major or an exploratory course for any student at any grade level. It offers an opportunity to work with various media such as pencil, ink, charcoal, pastels, acrylics, and watercolors. Elements of design and art history are emphasized. This class qualifies as a fine art credit.

Drawing & Painting I

AR60

Grades: 09-12 **College Prep:** Yes **Credit:** 0.50 **Duration:** 1 semester **Fee:** \$15.00

Drawing and Painting is designed to give the student more in-depth experience in a variety of paints including but not limited to acrylic, airbrush, oil, and watercolor, experience painting on different surfaces, drawing in pencil, and chalk or pastels. The students are expected to develop, maintain and experiment in the above areas with teacher guidance. Knowledge and effective use of the principles of design and more research and knowledge of artists in history is expected. This class qualifies as a fine art credit.

Drawing & Painting II

AR62

Grades: 10-12 **College Prep:** Yes **Credit:** 0.50 **Duration:** 1 semester **Fee:** \$15.00

Drawing & Painting II is the second drawing and painting course at CHS this class will offer students a chance to further explore the world of art through various media associated with drawing and painting, while learning how to better understand the world around them through art. Prerequisites: Art and Drawing Painting I.

Drawing & Painting III

AR63

Grades: 10-12 **College Prep:** Yes **Credit:** 0.50 **Duration:** 1 semester **Fee:** \$15.00

This class will offer students a chance to further explore the world of art through various media associated with drawing and painting, while learning how to better understand the world around them through art. The curriculum will center on drawing and painting and how to compose a piece of art by using the elements of art and principles of design. Prerequisites: Art, Drawing and Painting I & II.

Drawing & Painting IV

AR64

Grades: 11-12 **College Prep:** Yes **Credit:** .50 **Duration:** 1 semester **Fee:** \$15.00

This course is designed for students who have a post-secondary interest in Art. Students will be expected to guide their talents and interests into any 2 dimensional medium and create a portfolio of work throughout the semester. Class for Juniors and Seniors only.

Drawing & Painting V

AR66

Grades: 11-12 **College Prep:** **Credit:** .50 **Duration:** 1 semester **Fee:** \$15.00

This course is designed for students who have a post-secondary interest in Art. Students will be expected to guide their talents and interests into any 2 dimensional medium and create a portfolio of work throughout the semester. Class is for Juniors and Seniors only.

Sculpture Ceramics

AR55

Grades: 09-12 **College Prep:** Yes **Credit:** 0.50 **Duration:** 1 semester **Fee:** \$15.00

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This is an introductory studio class for students who wish to explore the art of ceramics. Emphasis will be placed on the design elements: line, shape, texture, form and color. Focus will be on hand building techniques: pinch, coil and slabs. Functional as well as sculptural applications will be explored. Glazing techniques will be introduced. There will also be an introduction to traditional and historical ceramic arts incorporated into the studio experiences.

Advanced Ceramics

AR55Q

Grades: 09-12 **College Prep:** Yes **Credit:** 0.50 **Duration:** 1 semester **Fee:** \$15.00

Advanced Ceramics is a class is designed for students to expand their basic knowledge and skills in hand building. Students will also be introduced to wheel throwing techniques. More emphasis will be placed on the craftsmanship and quality of the finished product. Students will propose projects of their own design as well as teacher-designed projects. Prerequisite: Introduction to Ceramics

Advanced Sculptures & Ceramics III

AR56

Grades: 10-12 **College Prep:** Yes **Credit:** 0.50 **Duration:** 1 semester **Fee:** \$15.00

This Advanced Ceramics class is for students who demonstrate a serious commitment to excellence and personal growth of their artwork. This course is geared to the student who is motivated to undertake very ambitious work in clay and further their understanding of ceramic art as a means of artistic expression and possible pursuit of study in college or further profession. Students will choose and prepare artwork for many exhibits. Prerequisite: Ceramics and Sculpture I & II.

Advanced Ceramics and Sculpture IV

AR57

Grades: 10-12 **College Prep:** Yes **Credit:** 0.50 **Duration:** 1 semester **Fee:** \$15.00

These Advanced ceramics is a studio course for student to further the study and design concept, form and function of the finished work. Students are encouraged to explore glazing and decoration techniques in depth. Students will continue to explore the media and develop a personal voice. Advanced ceramics students must be self-motivated and quality conscientious individuals. This class is for students who possibly want to pursue the study of Ceramics in college or a further profession Students will choose and prepare artwork for many exhibits. Prerequisite: Ceramics and Sculpture I, II & III.

Advanced Ceramics and Sculpture V

AR58

Grades: 11-12 **College Prep:** Yes **Credit:** 0.50 **Duration:** 1 semester **Fee:** \$15.00

These Advanced ceramics is a studio course for student to further the study and design concept, form and function of the finished work. Students are encouraged to explore glazing and decoration techniques in depth. Students will continue to explore the media and develop a personal voice. Advanced ceramics students must be self-motivated and quality conscientious individuals. This class is for students who possibly want to pursue the study of Ceramics in college or a further profession Students will choose and prepare artwork for many exhibits. Prerequisite: Ceramics and Sculpture I, II, III & IV.

Advanced Ceramics and Sculpture VI

AR59

Grades: 11-12 **College Prep:** Yes **Credit:** 0.50 **Duration:** 1 semester **Fee:** \$15.00

These Advanced ceramics is a studio course for student to further the study and design concept, form and function of the finished work. Students are encouraged to explore glazing and decoration techniques in depth. Students will continue to explore the media and develop a personal voice. Advanced ceramics students must be self-motivated and quality conscientious individuals. This class is for students who possibly want to pursue the study of Ceramics in college or a further profession Students will choose and prepare artwork for many exhibits. Prerequisite: Ceramics and Sculpture I, II, III, IV & V.

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Advanced Art Studio

AR67

Grades: 12

College Prep: Yes

Credit: 0.50

Duration: 1 semester

Fee: \$15.00

Advanced Art Studio is the capstone of the art program here at Coconino High School. All students enrolled in this course are **required to have completed Introduction to Art and Drawing and Painting 1, 2, 3, 4, and 5**. This course is designed for students who have a post-secondary interest in Art. With *six* semesters of high school art already completed, students will be expected to guide their talents and interests into any two-dimensional medium and create a portfolio of work throughout the semester. Students will be expected to focus in on a specific area and to demonstrate relative mastery within that medium. A working knowledge of all of the elements and principles of design is expected. Students will develop their skills and hone their technical abilities during this course. Prerequisite: Intro to Art, Drawing & Painting 1, 2, 3, 4, & 5.

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Career and Technical Education (CTE)

Many of our CTE courses are dual enrolled with Coconino Community College allowing students to receive free college credit for completing the course. All CTE students will be able to participate in a Career and Technology Student Organization (CTSO) Skills USA, FBLA.

Auto Mechanics I

CT53A/B

Grades: 10 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$40.00

Auto I is a course designed to introduce students to the automotive field. Auto I is designed for students gain skills to be used toward higher level classes or at home repairs. Throughout the year students will learn how to properly maintain a vehicle and work toward repairs that can be done at home. This class will also look into the different theories on how automotive systems work.

Auto Mechanics/Technology II (with Dual Enrollment option)

CT54A/B

Grades: 10 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$40.00

Automotive II is focused on expanding from Auto I with advanced diagnostics and troubleshooting. Students will be working with project cars as well as lab based projects. Students will be introduced to axles, transmissions, engine performance, etc. This class is based on NATEF (National Automotive Technicians Education Foundation) curriculum designed to prepare students for a career in the automotive field. ***This is a dual enrollment course. We partner with CCC allowing students to earn college credit.***

Auto Mechanics/Technology III (with Dual Enrollment option)

CT55A/B

Grades: 11 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$40.00

This course is a continuation of Automotive Technology 2. This course will focus on advanced projects, diagnosis, and troubleshooting. This class is designed for students who want to pursue a career in the automotive field or want to continue to expand their knowledge of automotive technology. This class is based on NATEF (National Automotive Technicians Education Foundation) curriculum designed to prepare students for a career in the automotive field. ***This is a dual enrollment course. We partner with CCC allowing students to earn college credit.***

Fabrication Design Auto Fusion

CT58A/B

Grades: 11 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$40.00

This course allows the serious student who is interested in automotive design and fabrication to take a hands-on role in fabricating, body working, metal working and building cars. Students will be receiving skills that are not covered in normal automotive classes. This class is only offered in the evening.

Automotive Technology IV - Internship

CT87A/B

Grades: 12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:**

Automotive Technology IV – Internship provides CTE students an opportunity to engage in learning through participation in a structured work experience that can either be paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Automotive Technologies knowledge and skills. Prerequisites: Autos I, II, and III

CTE Exploratory

CT05A/B

Grades: 09 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:**

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The purpose of this course is to provide 9th grade students with an overview of the principles and practices in each of the following areas. Marketing and Accounting, Word Processing and Computers, Welding, Power Mechanics, Woodworking, and Digital Media. During the progression of the school year, students will rotate through each area gaining insight into the career and technical education courses offered at Coconino High School.

Intro to Culinary Arts

CT 19A/B

Grades: 9-12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$50.00

This course is an entry-level culinary class, providing basic principles in food preparation. Students will learn to plan and prepare a variety of foods, along with basic kitchen skills. Intro to Culinary is a prerequisite for all other culinary classes.

Intro to Pastry and Baking

CT20A/B

Grades: 10 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$50.00

This course is designed for the student interested in exploring a career in professional baking. All types of quick breads, yeast breads as well as basic desserts will be taught. This is a semester elective option. \$50.00 FACS fee required, all fees subject to change.

Culinary Arts I (with Dual Enrollment option)

CT21A/B

Grades: 10 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$50.00

Intro to Culinary is a prerequisite for this class. This course provides hands on training for students that are interested in a career in the food service industry. Students will obtain a Food Handler's card from the Coconino County Health Department and simulate foodservice careers through events held at the Panther Café, a licensed restaurant and bakery. Students plan and prepare all food items that are sold using industry guidelines. They are also responsible for selling and serving food at the food sales window.

Culinary Arts II (with Dual Enrollment option)

CT22A/B

Grades: 10 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$50.00

Culinary Arts I is a prerequisite for this class. This class is a continuation of skills learned in Culinary Arts I. Second year students work as kitchen managers in planning, overseeing, and preparing meals for the Panther Café and food sales window.

Film, TV, & Graphics I (with Dual Enrollment option)

CT140A/B

Grades: 9-12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$25.00

Year one in Digital Media is an exploratory project based learning environment offering students the opportunity to gain experience in the medium of visual communication. In year one, we teach the fundamentals of film & video production, website and graphic design. Participants will find the class and the program, a springboard to a possible future in some of the most highly sought after careers of the 21st Century. They will approach these opportunities with diverse technology skills that are versatile and can be applied to a number of professions. We operate in a state of the art computer lab with the most current industry adopted software. These include, the Adobe CS6 Master Collection, Illustrator, Photoshop and Indesign. For video production, we use Final Cut Pro. We finish the year by researching various website content management systems, search engine optimization and create a basic website with Wordpress.

DE Film, TV, & Graphics II (with Dual Enrollment option)

CT141A/B

Grades: 10-12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$25.00

Year two in Digital Media builds on year one (Digital Media I is a prerequisite) and provides students a dual enrollment prospect that allows them to gain college credit while in the class. We delve deeper into visual communication including film & video production techniques, graphic and website design with emphasis on composition, color theory, principles of design and production. The class model is a multimedia business organization structure. Students continuing the

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program choose an area of interest and work within a department. Departments include, Marketing, Graphic Design, Video Production and Website development. The curriculum is differentiated according to departments and each department is responsible for creating content for a specific entity. These are, Panther TV (a school based video blog website), providing support maintaining the school website, creating graphic design projects for Coconino High School, as well as, support and layout of the school newspaper, The Coconino Press. These projects will provide real world experience and in turn will help students to either launch into a post high school career or allow them to work in a multimedia field while in college. ***This is a dual enrollment course. We partner with CCC allowing students to earn college credit.***

DE Film, TV, & Graphics III

Grades: 10-12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **CT142A/B**
Fee: \$25.00

Digital Media year I & II are prerequisites for Digital Media III. Students who continue to progress through the program are laying a foundation for a future in the multimedia, graphic arts and media specialist fields. The diversity of the skill set acquired in the program is not limited to these industries. The additional business operation acumen, critical thinking, problem solving, communication, collaboration, creativity and innovation aspects are some of the most sought after skills in the professional world. During year three, students will continue to develop skills in their desired area of focus while managing the departments and projects underway in Digital Media II. Encouraging and developing management skills for both department and school wide projects is at the center of this valuable learning experience. Students have begun and will continue to create a resume/personal portfolio website, which can be used as a resource for submitting to a college program or for acquiring employment post high school. ***Dual enrollment credit approval pending.***

Computer Science Principles (with AP option)

Grades: 11-12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **CT102A/B**
Fee: \$30

Prerequisite: AP Agreement Form.

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

Digital Photo/Design I

Grades: 10 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **CT30A/B**
Fee: \$30.00

This class is a prerequisite for Digital Photography II, III, and Yearbook Publications. This class will introduce students to the mechanics and techniques of taking great photographs. Through weekly photo assignments, students will use a point and shoot camera to take photographs to improve their skills. Photographic fundamentals will include lighting, composition, posing subjects and camera functions. Students will learn the basic tools of photo editing using the software program Photoshop. Students can use their own camera or we will provide one. This class qualifies as a fine art credit.

Digital Photo/Design II

Grades: 10 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **CT31A/B**
Fee: \$30.00

Advanced Digital Photography uses the skills of taking good photos that students learned in the basic photo class and expands on them. Students will use a Digital SLR camera with interchangeable lenses to learn the techniques and fundamentals of shutter speeds, aperture and depth of field. Students will also learn how to design posters, flyers, and programs using their photos. Through the creation of projects students will learn the elements of design, studio lighting,

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and presentation. This class qualifies as a fine art credit. Prerequisite: Recommendation of C or higher in Digital Photo I.

Engineering I: Introduction to Engineering Design

CT78A/B

Grades: 9 -12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee: \$30.00

This is a foundational preparatory course for those students pursuing careers in technical, design and engineering fields. Students dig deep into the engineering design process, utilizing project based learning techniques applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems. Students will learn to use Autodesk Inventor, a 2D and 3D computer aided design and drafting (CADD) modeling software, to construct solid models and print them on a 3D printer. Learners keep a professional engineering notebook to document thoughts, ideas, sketches, and hand crafted drawings. Students will learn to use metal and wood band saws, laser cutters, 3D printers, hand tools, pneumatic tools and many more. Some hands-on lessons include learning to use a dial caliper, reverse engineering and building a glider, designing and building a puzzle cube, using composite materials, designing, building, and testing a model vehicle. Successful completion of a full year of this course will prepare students for the Principles of Engineering course. **Dual Enrollment: Successful completion of all three years of this course (POE and AE/or EDD) will count toward 12 credits of drafting and machining from Coconino Community College.**

Engineering II: Principles of Engineering

CT82A/B

Grades: 10 -12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee: \$30.00

Through exciting and interesting problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms and simple machines, working with composite materials during vehicle modeling design and testing, robotic automation (marble sorter), alternative energy systems (such as solar and hydrogen fuel cells). Students continue to develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Learners will continue to use 3D modeling software, laser cutters, and will learn to use a manual vertical mill, a manual lathe, CNC milling, and 3D printers while growing their skills using the engineering design process to seek out solutions to problems. Prerequisite: Introduction to Engineering. **This is a dual enrollment course. We partner with CCC allowing students to earn college credit.**

Engineering III: Aerospace Engineering

CT79A/B

Grades: 11-12, priority to 12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee: \$30.00

This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil and testing it in a wind tunnel, explore and test propulsion system, work with composite materials, design and test model rocketry, design and construct gliders, and build and fly a remote-controlled (RC) aircraft. They study and learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles. Prerequisite: IED & POE courses. **This is a dual enrollment course. We partner with CCC allowing students to earn college credit.**

Architectural Interior Design

CT107A/B

Grades: 9-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee: \$25.00

Students who enroll in this course will explore elements and principles of design as they apply to residential, commercial, and retail spaces. We will be exploring college and career opportunities as well as current trends and influences on the housing and construction industry including cultural and historical influences. All students will have the opportunity to participate as members of the national Career and Technical Student Organization, FCCLA.

Architectural Interior Design II

CT108A/B

Grades: 10-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee: \$25.00

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Students will focus on technical aspects of designing residential, commercial and retail spaces including anthropometrics, building codes and technical drawings. We will be exploring current trends and influences on the housing industry including cultural and historical influences. Much of the class will be independent, student led learning. Students will also have the opportunity to participate as members of the national Career and Technical Student Organization, FCCLA.

Architectural Interior Design III

CT109A/B

Grades: 11-12 **College Prep:** Yes **Credit:** 1 **Duration:** 1 year **Fee:** \$25.00

Students will apply technical concepts and knowledge through hands on projects inside and outside of the classroom. The goal of AID III is to make a positive impact on the physical environment of the school through student led design, redesign, and remodeling. Students will work with various clients to help make design decisions and implement their design. Students will also be members of the national organization FCCLA and have the opportunity to compete in-state and national competitions for interior design.

Architectural Interior Design IV

CT110A/B

Grades: 11-12 **College Prep:** Yes **Credit:** 1 **Duration:** 1 year **Fee:** \$25.00

Students will apply technical concepts and knowledge through hands on projects inside and outside of the classroom. The goal of AID III is to make a positive impact on the physical environment of the school through student led design, redesign, and remodeling. Students will work with various clients to help make design decisions and implement their design. Students will also be members of the national organization FCCLA and have the opportunity to compete in-state and national competitions for interior design.

Welding Technologies I

CT49A/B

Grades: 9 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$30.00 & DE fee

The purpose of this course is to teach the student basic fundamentals of common welding processes. Covered in the course are Industrial Safety, Oxy/Acetylene Welding (OA), Shielded Metal Arc Welding (SMAW) and Plasma Arc Cutting (PAC). Students will use standard industrial tools, materials, and equipment while learning in an applied setting.

Welding Technologies II

CT62A/B

Grades: 10 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$40.00

This course will further develop the skills learned in Welding I. Students will begin out of position welding including vertical, horizontal and overhead welding. Students will increase skills through teacher driven project building and fabrication techniques.

Welding Technologies III

CT63A/B

Grades: 11 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$40.00

This class will increase student skills and knowledge through hands on advanced fabrication techniques and procedures. Students will design and build projects as approved by the instructor. Students may be involved in community service projects for the school and district.

Woods I

CT69A/B

Grades: 9-11 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$40.00

Cabinetmaking is an opportunity to learn advanced skills in the area of cabinetmaking. Students will be able to increase their knowledge of design and construction in the field of woodworking. Students will be able to increase their knowledge of design and construction in the field of woodworking. Students will be able to join and compete in Skills USA. *Fee required.

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Woods II

Grades: 10-11

College Prep: Yes

Credit: 1.0

Duration: 1 year

CT84A/B

Fee: \$40.00

Cabinetmaking is an opportunity to learn advanced skills in the area of cabinetmaking. Students will be able to increase their knowledge of design and construction in the field of woodworking. Students will be able to increase their knowledge of design and construction in the field of woodworking. Students will be able to join and compete in Skills USA. *Fee required.

Yearbook Publications I

Grades: 10 -12

College Prep: Yes

Credit: 1.0

Duration: 1 year

CT33A/B

Fee: \$30.00

Publications is a course to introduce journalism and mass media. Students will study the processes and skills involved in media, including news writing, feature writing, interviewing, page layout, and photography. Students will design and produce school publications, including newspapers and yearbook. Students will gain knowledge and skills in writing, graphic design and photography in a hands-on learning environment. Students should be prepared to devote time outside of the class to the publication. Students must have photo or yearbook experience. Prerequisite: Recommendation of C or higher Digital Photo I or previous Yearbook experience.

Yearbook Publications II

Grades: 10 -12

College Prep: Yes

Credit: 1.0

Duration: 1 year

CT34A/B

Fee: \$30.00

Publications is; a course to introduce journalism and mass media. Students will study the processes and skills involved in media, including news writing, feature writing, interviewing, page layout, and photography. Students will design and produce school publications, including newspapers and yearbook. Students will gain knowledge and skills in writing, graphic design and photography in a hands-on learning environment. Students should be prepared to devote time outside of the class to the publication. Students must have photo or yearbook experience. Prerequisite: Yearbook Publications I

Yearbook Publications III

Grades: 10-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

CT35A/B

Fee: \$30.00

Publications is a course to introduce journalism and mass media. Students will study the processes and skills involved in media, including news writing, feature writing, interviewing, page layout, and photography. Students will design and produce school publications, including newspapers and yearbook. Students will gain knowledge and skills in writing, graphic design and photography in a hands-on learning environment. Students should be prepared to devote time outside of the class to the publication Students must have photo or yearbook experience. Prerequisite: Yearbook II

Yearbook Publications IV

Grades: 12

College Prep: Yes

Credit: 1.0

Duration: 1 year

CT36A/B

Fee: \$30.00

Publications is a course to introduce journalism and mass media. Students will study the processes and skills involved in media, including news writing, feature writing, interviewing, page layout, and photography. Students will design and produce school publications, including newspapers and yearbook. Students will gain knowledge and skills in writing, graphic design and photography in a hands-on learning environment. Students should be prepared to devote time outside of the class to the publication Students must have photo or yearbook experience. Prerequisite: Yearbook III

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Coconino Institute of Technology (CIT)

(Application process- students test in as freshman)

CIT Engineering I

Grades: 09

College Prep: Yes

Credit: 1.0

Duration: 1 year

CT103A/B

Fee: \$30.00

(Freshman Year) CIT Engineering I is an elective credit class that is taught in a block concurrently with CIT Physics. Students will learn design software such as CAD and Corel Draw, and use tools for metal and plastic. Students will apply the concepts learned in Physics to design, build, test, and evaluate engineering projects. Past projects include cars, projectile machines, pasta bridges, planes, rockets and more. Prerequisites: Successful completion of the CIT application process.

Honors Physics

Grades: 09

College Prep: Yes

Credit: 1.0

Duration: 1 year

SC86A/B

Fee: \$25.00

(Freshman Year) Students will study the principles of Newtonian Mechanics including kinematics, projectile motion, static and dynamic forces, circular motion, energy, momentum, waves, and electricity. This is a rigorous lab science course that is taught using inquiry – students will develop the physical models by completing and analyzing numerous lab experiments. Prerequisites: Successful completion of the CIT application process. AP Agreement Form. **Applications are due by February 7th at 4:00 pm, and can be completed online by visiting the [CIT website](#) found under the Academics tab at the CHS home page.**

CIT Engineering II

Grades: 10

College Prep: Yes

Credit: 1.0

Duration: 1 year

CT104A/B

Fee: \$30.00

(Sophomore Year) CIT Engineering II is an elective credit class that is taught in a block concurrently with CIT Chemistry. Students will learn the engineering design process in greater detail while accepting the challenge of bigger and more complex projects. Topics include wind energy, animation, programming, and more. Past projects include windmills, water pumps, cardboard boats, Rube Goldberg machines, and more! Prerequisites: Completion of CIT Physics and CIT Engineering I with a C or better.

Honors Chemistry

Grades: 10

College Prep: Yes

Credit: 1.0

Duration: 1 year

SC75A/B

Fee: \$25.00

(Sophomore Year) Students will study the intricacies of matter and energy, the atom, the Mole, bonding, the periodic table, and more. CIT Chemistry is an exciting lab course designed to allow students to experience chemistry in a hands-on environment. Students will learn lab safety and equipment and perform numerous experiments. Prerequisites: Completion of CIT Physics and CIT Engineering I with a C or better and AP Agreement Form.

CIT Engineering III

Grade: 11

College Prep: Yes

Credit: 1.0

Duration: 1 year

CT105A/B

Fee: \$30.00

This year is broken up into two distinct semesters. The first semester will continue to be project based. Students will continue to improve their skills using the engineering process, measuring, drawing, designing, prototyping and testing. The projects will continue to delve deeper into science theory. This will be led by the students as they choose their area of study such as electromagnetism, heat, sound, hydraulics, etc. During the semester, the focus will be on testing, redesigning (iterations) and communication of results. Students will continue to have access to shop equipment and computer lab. The second semester is considered the capstone semester. During this semester, students will define their own problem and work towards a solution to this problem or goal. Students are required to use the engineering

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process and create a physical solution that attempts to solve the problem. Researching, brainstorming, drawing, constructing, testing, redesigning, and creating iterations are required throughout the process. The final project design successes and failures are then presented to the CIT student body at the end of the year. Students are required to submit a technical journal that details their learning process through the project. Prerequisites: Grade of C or better in CIT Freshman and Sophomore courses.

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Other Electives

Dine History/Government (with Dual Enrollment option) EL54A/B

Grades: 11-12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:**

Dine History and Government, a survey course, deals with the political, social and economic development that influence tribal, state, and federal government. The curriculum explores Dine culture, treaties, constitutional development, and political socialization. Students will learn essential vocabulary, geography, mythology and arts on a broad variety of topics dealing with daily life. Opportunities to gain knowledge about native astronomy, medical horology, ecological relationships, environmental concerns, and related societal implications will be explored. Analysis of major strategies and personalities involved in the Mexican/Indian Wars, the Long Walk, Navajo Code Talkers and Dine Veterans contributions to World War II will be emphasized. Introduction to Dine legal system and contemporary legal issues will be discussed. This course is required for students applying for Navajo Nation Chief Manuelito Scholarship.

LINK CREW (Application required) EL56A/B

Grades: 11 -12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:** \$15.00

Link Leadership is a nationwide program that connects 11th and 12th graders with 9th graders. Upper division students who are selected to the program are trained in mentoring, communication, leadership, empathy, and diversity among other related concepts. Students selected are required to take both the Fall and Spring class.

Office Aide EL60

Grades: 11-12 **College Prep:** No **Credit:** 0.50 **Duration:** 1 semester **Fee:**

Students will be assigned to either the counseling office, attendance office or the library. Students will learn different office procedures and will be assigned different tasks that will benefit the school. This is a high profile position that requires students to interact with the public and staff. An application process is required.

Peer Buddies EL50

Grades: 11 -12 **College Prep:** No **Credit:** 0.50 **Duration:** 1 semester **Fee:**

This is an opportunity for students to work with the school's most challenged students emotionally, socially, physically, and intellectually. The request must be initiated by the student and approved by the administration.

Student Council (Elected position required) EL64A/B

Grades: 10-12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

Students who participate in the leadership class will: Develop leadership skills that will be used both now and in the future. Become proficient at planning, organizing, executing, and evaluating a variety of student activities. Participate and take notes in class meetings. Establish and carry out goals and objectives for the student government body of the school. Encourage harmony among the different groups amongst Coconino High School. Assist in the execution of leadership projects and student activities.

Teacher Aide EL61

Grades: 11-12 **College Prep:** No **Credit:** 0.50 **Duration:** 1 semester **Fee:**

This is a working course in which a student assists the teacher with clerical tasks and is limited to only one credit. The request is initiated by the teacher and approved by the administration.

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Fine Arts

(Music and Art classes also qualify as fine art credit)

Dance I

Grades: 10-12

College Prep: No

Credit: 0.50

Duration: 1 semester

PE70

Fee: \$12.50

This course prepares students for Dance II through rigorous daily practice in multiple dance disciplines. In this course students will develop the foundational physical abilities required for dancers. Emphasis is on the development of muscular strength, aerobic conditioning, coordination, alignment, balance, dexterity, movement pick-up and movement memory as well as familiarity with common dance vocabulary, history and dance studio practices. Instructor approval or successful completion of Dance I is required to move on to Dance II. Dancers may choose to repeat Dance I if they prefer a slower pace and less complex movement. Fee required.

Dance II

Grades: 10-12

College Prep: No

Credit: 0.50

Duration: 1 semester

PE71

Fee: \$12.50

Structured for the serious dancer, this course will build on dance techniques introduced in Dance I through rigorous daily practice in multiple dance disciplines. In this course students will continue to develop the foundational physical abilities required for further studies and careers in dance. Students will also deepen their understanding of choreographic techniques and have opportunities to create their own movement sequences. The yearlong course will conclude with a polished performance for the public. Prerequisite: a passing grade in Dance I. Fee required.

Theatre Arts I (Not offered during the 2020-21 school year)

Grades: 9-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

TH51A/B

Fee: \$15.00

This class qualifies as a fine art credit. The purpose of this course is to provide an exciting, active, project based theater arts program. Students will be trained in the fundamental skills of the theater arts while exploring the technical aspects of theater including lights, sound, costume, makeup and set. In addition, script analysis, improvisation techniques, body control, voice, diction, pantomime, creation of character, and projection of emotions will be developed. Projects will provide positive group experiences in collaborative assignments, developing self-discipline, evaluating the performances of others, and accepting constructive criticism. (This course will not be offered 2020/2021)

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Modern Languages

The Modern Languages Department uses the best practice pedagogy of *language immersion*. All classes will strive to be conducted 90-100% in the target language, with Navajo and Spanish III or higher conducted 100% in the target language.

Navajo I

ML40A/B

Grades: 08 -12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

Two years (2) of Dine are recommended for college-bound students who wish to achieve the language proficiency expected by most four-year colleges and universities. The students learn Dine bizzaad at all levels by listening, speaking, reading, writing, and role-playing. In the first two levels, they learn basic vocabulary and useful expressions. Students are introduced to Navajo culture and history. In advanced levels, students increase their verbal proficiency and study syntax and grammar. Students are immersed in Dine pragmatics, play writing and literature development. ****Coconino Community College waives the prerequisite for 101; students should enroll in 102 at CCC.**

Navajo II

ML70A/B

Grades: 09 -12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

Two years (2) of Dine are recommended for college-bound students who wish to achieve the language proficiency expected by most four-year colleges and universities. The students learn Dine bizzaad at all levels by listening, speaking, reading, writing, and role-playing. In the first two levels, they learn basic vocabulary and useful expressions. Students are introduced to Navajo culture and history. In advanced levels, students increase their verbal proficiency and study syntax and grammar. Students are immersed in Dine pragmatics, play writing and literature development. ****Coconino Community College waives the prerequisite for 101; students should enroll in 102 at CCC.**

Honors Navajo III (with Dual Enrollment option)

ML91A/B

Grades: 10 -12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee: DE fee may apply

In advanced levels, students increase their verbal proficiency and study syntax and grammar. Students are immersed in Dine pragmatics, play writing and literature development. *****Coconino Community College waives the prerequisite for 102; students should enroll in 201 at CCC. *This is a dual enrollment course. We partner with CCC allowing students to earn college credit.***

Navajo III Immersion

ML99A/B

Grades: 10 -12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee: DE fee

To provide students with an understanding of the basic structures of Navajo through Reading, Writing, Speaking, and Listening. To promote appreciation of the beauty of the Navajo culture and the Navajo sound system. ***This is a dual enrollment course. We partner with CCC allowing students to earn college credit.***

Honor Navajo IV (with Dual Enrollment option)

ML95AH/BH

Grades: 11 -12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee: DE fee may apply

In advanced levels, students increase their verbal proficiency and study syntax and grammar. Students are immersed in Dine pragmatics, play writing and literature development. ***This is a dual enrollment course. We partner with CCC allowing students to earn college credit.***

Spanish I

ML45A/B

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Grades: 08 -11	College Prep: Yes	Credit: 1.0	Duration: 1 year	Fee:
Two (2) years of Spanish are recommended for college-bound students who wish to achieve the language proficiency expected by most four-year colleges and universities. Levels I and II establish a foundation of communication dealing with everyday activities in meaningful cultural contexts and basic grammar. Students learn essential vocabulary, useful expressions and study Hispanic culture.				
Spanish II				ML75A/B
Grades: 09-11	College Prep: Yes	Credit: 1.0	Duration: 1 year	Fee:
Two (2) years of Spanish are recommended for college-bound students who wish to achieve the language proficiency expected by most four-year colleges and universities. Levels I and II establish a foundation of communication dealing with everyday activities in meaningful cultural contexts and basic grammar. Students learn essential vocabulary, useful expressions and study Hispanic culture.				
Spanish III				ML92A/B
Grades: 10 -12	College Prep: Yes	Credit: 1.0	Duration: 1 year	Fee:
In Spanish III, students learn advanced grammatical structures and improve their written and oral proficiency skills. This course is designed to prepare students for admission to AP Spanish.				
AP Spanish Language & Culture				ML102AW/BW
Grades: 10 -12	College Prep: Yes	Credit: 1.0	Duration: 1 year	Fee:
This course will be offered every other year and is available for the 2020-21 school year. It will not be available the 2021-22 year. The AP Spanish Language and Culture course emphasizes communication by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products, practices and perspectives. College credit is granted to students who achieve a score of 3,4,or 5 on the AP Spanish test. Prerequisite: AP Agreement Form.				
AP Spanish Literature & Culture				ML104A/B
Grades: 11-12	College Prep: Yes	Credit: 1.0	Duration: 1 year	Fee:
This course will be offered every other year and is not available for the 2020-21 school year. It will be available the 2021-22 year. AP Spanish Language & Literature is designed to introduce students to the formal study of Peninsular Spanish, Latin American, and U.S. Hispanic literature. The course aims to develop students' critical reading and analytical writing skills in Spanish as well as their ability to make interdisciplinary connections and explore linguistic and cultural comparisons. Students are expected to discuss literary texts and their different historical, socio-cultural and geopolitical contexts in a variety of interactive oral and written formats in Spanish. Additionally, students will analyze themes and features of artistic representations, audiovisual materials and audio sources in Spanish related to course content. College credit is granted to students who achieve a score of 3, 4 or 5 on the AP Spanish test. Prerequisite: AP Agreement Form.				
Spanish for Spanish Speakers I				ML105A/B
Grades: 09 -12	College Prep: Yes	Credit: 1.0	Duration: 1 year	Fee:
Spanish for Heritage learners is a course designed to meet the particular needs of heritage/native learners. This course is specifically for heritage/native speakers of Spanish who already have some oral language proficiency. The purpose of this course is to strengthen the cultural and linguistic skills of Spanish heritage learners. After the two-year program students will be enrolled into AP Language and Literature and AP Language and Culture. This course will allow students				

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to fulfill the college entrance requirement for foreign language and take the ACTFL Assessment of Performance toward Proficiency in Languages (AAPPL) to earn the by-literacy seal. Students will be placed in this course with teacher recommendation

Puente Language Institute Recommended Program of Study

- I. Spanish for Spanish Speakers I ML105A/B (Teacher recommendation)
- II. Spanish for Spanish Speakers II Prerequisite Spanish for Spanish Speakers I ML105A/B
- III. AP Spanish Language & Culture
- IV. AP Spanish Literature & Culture

Music

(Courses listed will qualify for fine art credit)

Guitar

MU50

Grades: 09 -12

College Prep: Yes

Credit: 0.50

Duration: 1 semester

Fee:

This course introduces basic folk guitar playing skills (acoustical, not electrical) through the social music medium (folk, classical, pop, etc.). Guitars are not supplied, but a limited amount is available for a rental fee of \$20 per semester.

Advanced Guitar

MU51

Grades: 09-12

College Prep: Yes

Credit: .5

Duration: 1 semester

Fee:

This guitar class is open to any student who has already taken Guitar I in high school. More advanced guitar techniques and note reading will be reinforced. Students will perform in small ensembles. Guitars are not supplied, but a limited number are available for a rental fee of \$20 per semester.

AP Music Theory

MU95AW/BW

Grades: 11-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

Through this class, students will gain a better understanding of the way in which music is constructed. Concepts included: basic music notation and analysis, key signatures, chord recognition and resolution, rhythmic construction, interval recognition, and basic compositional techniques. The class will include ear training and sight singing, which will help students to develop and expand their auditory recognition of concepts covered in class. An overview of music history will also be included as part of the class. Overall, AP Music Theory will help develop each student's musicianship and overall understanding of written music. Prerequisites: 1. Membership in a high school music performance ensemble OR 2. Instructor Approval AND 3. Must be a current junior or senior. Complete AP Agreement Form.

Concert Choir

MU60A/B

Grades: 09 -12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee: may apply

Open to all students who enjoy singing, this year-long course will help students learn the fundamentals of singing, reading music, performing, and teamwork. This ensemble will offer opportunities to travel in-state and out-of-state to perform at festivals and events, and will represent the school at special appearances. Music selections will be a variety from all over the world and from the early renaissance to now. No audition required.

Concert Band

MU85

Grades: 09 -12

College Prep: Yes

Credit: 0.50

Duration: 1 semester

Fee: may apply

Students must be enrolled in band for the entire year, as this class is paired with Marching Band. This course fulfills graduation requirements for fine arts and may be repeated for elective credit. This course is designed for students with

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previous middle school or high school band experience, or with instructor approval. After school rehearsals and performances are required. This course will involve outside costs of either renting or buying an instrument. A limited number of school instruments are available for rental. Students will master the basic techniques of any band instrument as well as learn note reading, rhythm, and music theory. \$125.00 Participation fee required for AIA activities.

Marching Band

MU80

Grades: 09 -12 **College Prep:** Yes **Credit:** 0.50 **Duration:** 1 semester **Fee:** may apply

Students must be enrolled in band for the entire year, as this class is paired with Concert Band. This course fulfills graduation requirements for fine arts and may be repeated for elective credit. This course is designed for students with previous middle school or high school band experience, or with instructor approval. After school rehearsals and performances, including halftime performances at football games, are required. This course will involve outside costs of either renting or buying an instrument. A limited number of school instruments are available for rental. Students will master the basic techniques of any band instrument as well as learn note reading, rhythm, and music theory. \$125.00 Participation fee required for AIA activities.

Orchestra

MU75A/B

Grades: 09 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** may apply

This orchestra class is offered for students who have played stringed instruments (violin, viola, cello or string bass) for one or more years. Basic orchestral concepts, scales, rhythms, and ensemble awareness skills will be emphasized. All performances and rehearsals are mandatory. Students will be required to pay for uniform cleaning. The course may be repeated for credit. \$125.00 Participation fee required for AIA activities.

Percussion

MU81

Grades: 09 -12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:** may apply

This course is open to students in grades 9-12 with previous experience in middle school or high school music programs and offers students a well-rounded approach to learning percussion instruments in order to develop their skills in all areas of percussion including mallets, pitched and unpitched percussion, and auxiliary instruments. After school rehearsals and performances, including halftime performances at football games, and concerts, are required. Students in percussion class must participate and perform with the marching and concert band, and must be enrolled in the course for the entire year. \$125.00 Participation fee required for AIA activities

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Physical Education

JROTC

Grades: 09-12

College Prep: No

Credit: 1.0

Duration: 1 year

PE80

Fee: No fee

The Army JROTC program is designed to teach high school students the value of citizenship, leadership, service to the community, personal responsibility, and a sense of accomplishment, while instilling in them self-esteem, teamwork and self-discipline. Its focus is reflected in its mission statement "To motivate young people to be better citizens." It prepares high school students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as an American citizen. Uniforms are provided. Cadets are responsible for uniform cleaning and maintenance.

Personal Fitness

Grades: 09

College Prep: No

Credit: 0.50

Duration: 1 semester

PE55

Fee:

Personal Fitness consists of lifetime and fitness activities. Students will focus on activities related to the five components of fitness (cardiovascular, flexibility, muscular strength & endurance, and body composition) and skill-related components (balance, power, agility, speed, reaction-time and coordination). Students will be introduced to a multitude of fitness activities including but not limited to: aerobic conditioning activities, weight lifting, exercise ball techniques, biking, rock climbing, in-line skating, and so on; students will also apply goal setting techniques and principles of training. Students will be required to track their progress throughout the semester in the form of fitness logs and assessments. This class is a prerequisite to all other P.E. classes

Yoga

Grades: 10-12

College Prep: No

Credit: 0.50

Duration: 1 semester

PE75F/S

Fee: \$12.50

This is a beginning yoga class intended for any student to embark on the Yoga experience whether it is new to them or they already practice Yoga on a regular basis. This course is intended to support and enhance adolescents' physical, mental, emotional and social development. Students will learn the basic alignment of traditional hatha yoga poses (a yoga system of physical exercises and breathing control). At times we will practice a more vigorous vinyasa and yang flows. Students will also participate in deep stretching and relaxation. Benefits of yoga include, but are not limited to: increased core strength, increased flexibility, decrease pain and tensions stress reduction, injury prevention, increase concentration and mental awareness, and self-discipline.

Health

Grades: 09

College Prep: No

Credit: 0.50

Duration: 1 semester

PE50

Fee:

Classroom Health presents a wide array of topics related to health, wellness, and living a positive quality of life. Topics will include but are not limited to: mental/emotional health, stress, decision making skills, nutrition, tobacco prevention, alcohol & substance abuse, and healthy relationships. This class is a prerequisite to all other P.E. classes.

Advanced Sports Training

Grades: 10-12

College Prep: No

Credit: 0.50

Duration: 1 semester

PE85A/B

Fee: \$12.50

Only offered 7th hour. The Advanced Sports Training course is set up to enable Coconino students the opportunity to develop their strength, speed, agility, and injury prevention for interscholastic sports. Sport-specific lifting and training will increase the athletic ability of each student while raising the competitiveness of the CHS athletic programs. Each student will participate in either an in-season workout or an off-season workout during the course. Individual Head Coaches will provide in-season workouts while the course instructors will provide off-season workouts. In addition, this class is an avenue for Coconino's student-athletes to build unity, individual pride, team/sport program pride, Coconino

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atmosphere and facility pride, and camaraderie with their fellow students. *This course may be repeated for credit but not for grade change.* Fee required. Prerequisite: Coach Recommendation/Teacher Approval and returning athletes.

Intro to Recreational Sports

PE63A/B

Grades: 10-12 **College Prep:** No **Credit:** 0.50 **Duration:** 1 year **Fee:** \$12.50

This class is intended to be an introduction to a well-rounded mix of team sports and individual sports in a **less competitive environment**. This class offers all students a way of leading a healthy and physically active lifestyle. Team sports may include but are not limited to: basketball, football, volleyball, soccer, softball, ultimate Frisbee, handball, capture the flag, etc. Individual sports may include but are not limited to: badminton, pickleball, spike ball, disc golf, etc. Pre-requisite: a passing grade in Health and Personal Fitness.

(Competitive) Recreational Sports

PE59A/B

Grades: 10-12 **College Prep:** No **Credit:** 0.50 **Duration:** 1 year **Fee:** \$12.50

A well rounded mix of team sports and individual sports intended for **experienced and competitive students**. This class offers all students a way of leading a healthy and physically active lifestyle. Team sports may include but are not limited to: basketball, football, volleyball, soccer, softball, ultimate Frisbee, dodgeball, handball, capture the flag, etc. Individual sports may include but are not limited to badminton, pickleball, spike ball, disc golf, etc. Pre-requisite: a passing grade in Health and Personal Fitness.

Strength Training

PE64A/B

Grades: 10-12 **College Prep:** No **Credit:** 0.50 **Duration:** 1 semester **Fee:** \$12.50

This course is designed for students who want to place an emphasis on physical fitness and conditioning, primarily weight training and aerobic conditioning. Lifting workouts are individualized by students' height, weight, and fitness assessments. This class provides a great opportunity to increase strength, power, speed, agility, balance and reaction time. Strength Training also includes discussions of proper eating plans, and goal setting. Prerequisite: a passing grade in Health, & Personal Fitness. Fee required.

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International Baccalaureate (IB)

Students pursuing the IB diploma must take Theory of Knowledge & a minimum of 3 high level & 3 standard level IB courses, one from each subject group.

All IB courses except TOK are open to all students depending on availability. IB diploma students have priority.

The Core:

IB Theory of Knowledge 11 & 12 (TOK)

IBEL111

Grades: 11 & 12

College Prep: Yes

Credit: 0.5/year

Duration: 2 Years

Fee: N/A

Theory of knowledge (TOK) is a course about critical thinking and inquiring into the process of knowing, rather than about learning a specific body of knowledge. It plays a special role in the DP by providing an opportunity for students to reflect on the nature of knowledge, to make connections between areas of knowledge and to become aware of their own perspectives and those of the various groups whose knowledge they share. It is a core element undertaken by all DP students, and schools are required to devote at least 100 hours of class time to the course. The overall aim of TOK is to encourage students to formulate answers to the question “how do you know?” in a variety of contexts, and to see the value of that question. This allows students to develop an enduring fascination with the richness of knowledge.

Group 1: Language A

IB English 11 & 12 Language & Literature Higher Level (HL)

IBEN201 & IBEN202

Grades: 11 & 12

College Prep: Yes

Credit: 1.0/year

Duration: 2 Years

Fee: N/A

The language A: language and literature course aims to develop skills of textual analysis and the understanding that texts, both literary and non-literary, can relate to culturally determined reading practices. The course also encourages students to question the meaning generated by language and texts. An understanding of the ways in which formal elements are used to create meaning in a text is combined with an exploration of how that meaning is affected by reading practices that are culturally defined and by the circumstances of production and reception. The study of literature in translation from other cultures is especially important to IB DP students because it contributes to a global perspective. Texts are chosen from a variety of sources, genres, and media.

Group 2: Language B

IB Spanish ab Initio 11 & 12 Standard Level (SL)

IBML101 & IBML102

Grades: 11 & 12

College Prep: Yes

Credit: 1.0/year

Duration: 2 Years

Fee: N/A

Language acquisition consists of two modern language courses language ab initio and language B—designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where the language studied is spoken. Offered at SL only, language ab initio is a language acquisition course designed for students with no previous experience in—or very little exposure to the target language. Language ab initio students develop their receptive, productive and interactive skills while learning to communicate in the target language in familiar and unfamiliar contexts. Students develop the ability to communicate through the study of language, themes and texts. There are five prescribed themes: identities, experiences, human ingenuity, social organization and sharing the planet. While the themes are common to both language ab initio and language B, the language ab initio syllabus additionally prescribes four topics for each of the five themes, for a total of 20 topics that must be addressed over the two years of the course. **This is equivalent to a Spanish 1/2 course.**

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IB Spanish B 11 & 12 Standard Level (SL)

IBML111 & IBML112

Grades: 11 & 12

College Prep: Yes

Credit: 1.0/year

Duration: 2 Years

Fee: N/A

Language acquisition consists of two modern language courses— language ab initio and language B—designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where the language studied is spoken. Language B is a language acquisition course designed for students with some previous experience of the target language. Students further develop their ability to communicate through the study of language, themes and texts. There are five prescribed themes: identities, experiences, human ingenuity, social organization and sharing the planet. Both language B SL and HL students learn to communicate in the target language in familiar and unfamiliar contexts. The distinction between language B SL and HL can be seen in the level of competency the student is expected to develop in receptive, productive and interactive skills. At HL the study of two literary works originally written in the target language is required and students are expected to extend the range and complexity of the language they use and understand in order to communicate. Students continue to develop their knowledge of vocabulary and grammar, as well as their conceptual understanding of how language works, in order to construct, analyse and evaluate arguments on a variety of topics relating to course content and the target language culture(s). **This is equivalent to a Spanish 2/3 course.**

IB Spanish B 11 & 12 Higher Level (HL)

IBML201 & IBML202

Grades: 11 & 12

College Prep: Yes

Credit: 1.0/year

Duration: 2 Years

Fee: N/A

Language acquisition consists of two modern language courses— language ab initio and language B—designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where the language studied is spoken. Language B is a language acquisition course designed for students with some previous experience of the target language. Students further develop their ability to communicate through the study of language, themes and texts. There are five prescribed themes: identities, experiences, human ingenuity, social organization and sharing the planet. Both language B SL and HL students learn to communicate in the target language in familiar and unfamiliar contexts. The distinction between language B SL and HL can be seen in the level of competency the student is expected to develop in receptive, productive and interactive skills. At HL the study of two literary works originally written in the target language is required and students are expected to extend the range and complexity of the language they use and understand in order to communicate. Students continue to develop their knowledge of vocabulary and grammar, as well as their conceptual understanding of how language works, in order to construct, analyse and evaluate arguments on a variety of topics relating to course content and the target language culture(s). **This is equivalent to a Spanish 3/4 course.**

Group 3: Individuals and Societies

IB History: World Topics & History of the Americas 11 & 12 Higher Level (HL)

IBSS201 & IBSS202

Grades: 11 & 12

College Prep: Yes

Credit: 1.0/year

Duration: 2 Years

Fee: N/A

The DP history course is a world history course based on a comparative and multi-perspective approach to history. It involves the study of a variety of types of history, including political, economic, social and cultural, and provides a balance of structure and flexibility. The course emphasizes the importance of encouraging students to think historically and to develop historical skills as well as gaining factual knowledge. It puts a premium on developing the skills of critical thinking, and on developing an understanding of multiple interpretations of history. In this way, the course involves a challenging and demanding critical exploration of the past. Teachers explicitly teach thinking and research skills such as comprehension, text analysis, transfer, and use of primary sources. There are six key concepts that have particular prominence throughout the DP history course: change, continuity, causation, consequence, significance and perspectives. The second year of

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this course focuses on the history of the Americas, with the United States as a case study in comparison with other countries in the Americas. Year 1 will count for the student's World History Credit and year 2 will count for the student's U.S. History credit.

Group 4: Sciences

IB Biology Higher Level (HL)

IBSC201 & IBSC202

Grades: 11 & 12

College Prep: Yes

Credit: 1.0/year

Duration: 2 Years

Fee: \$25

Biology is the study of life. The vast diversity of species makes biology both an endless source of fascination and a considerable challenge. Biologists attempt to understand the living world at all levels from the micro to the macro using many different approaches and techniques. Biology is still a young science and great progress is expected in the 21st century. This progress is important at a time of growing pressure on the human population and the environment. By studying biology in the DP students should become aware of how scientists work and communicate with each other. While the scientific method may take on a wide variety of forms, it is the emphasis on a practical approach through experimental work that characterizes the sciences. Teachers provide students with opportunities to design investigations, collect data, develop manipulative skills, analyse results, collaborate with peers and evaluate and communicate their findings.

IB Computer Science Standard Level (SL)

IBEL101

Grades: 11 & 12

College Prep: Yes

Credit: 1.0/year

Duration: 1 Year

Fee: \$30

The IB DP Computer science SL course requires an understanding of the fundamental concepts of computational thinking as well as knowledge of how computers and other digital devices operate. The course, underpinned by conceptual thinking, draws on a wide spectrum of knowledge, and enables and empowers innovation, exploration and the acquisition of further knowledge. Students study how computer science interacts with and influences cultures, society and how individuals and societies behave, and the ethical issues involved. During the course the student will develop computational solutions. This will involve the ability to:

- identify a problem or unanswered question
- design, prototype and test a proposed solution
- liaise with clients to evaluate the success of the proposed solution and make recommendations for future developments.

Group 5: Mathematics

IB Math 11 & 12 Applications & Interpretations (A&I) Standard Level (SL)

IBMA101 & IBMA102

Grades: 11 & 12

College Prep: Yes

Credit: 1.0/year

Duration: 2 Years

Fee: N/A

The IB DP Mathematics: applications and interpretation course recognizes the increasing role that mathematics and technology play in a diverse range of fields in a data-rich world. As such, it emphasizes the meaning of mathematics in context by focusing on topics that are often used as applications or in mathematical modelling. To give this understanding a firm base, this course includes topics that are traditionally part of a pre-university mathematics courses such as calculus and statistics. Students are encouraged to solve real-world problems, construct and communicate this mathematically and interpret the conclusions or generalizations. Students should expect to develop strong technology skills, and will be intellectually equipped to appreciate the links between the theoretical and practical concepts in mathematics. All external assessments involve the use of technology. Students are also encouraged to develop the skills needed to continue their mathematical growth in other learning environments. The internally assessed exploration allows students to develop independence in mathematical learning. Throughout the course students are encouraged to take a considered approach to various mathematical activities and to explore different mathematical ideas.

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IB Math 11 & 12 Applications & Interpretations (A&I) Standard Level (HL)

IBMA201 & IBMA202

Grades: 11 & 12

College Prep: Yes

Credit: 1.0/year

Duration: 2 Years

Fee:

The IB DP Mathematics: applications and interpretation course recognizes the increasing role that mathematics and technology play in a diverse range of fields in a data-rich world. As such, it emphasizes the meaning of mathematics in context by focusing on topics that are often used as applications or in mathematical modelling. To give this understanding a firm base, this course includes topics that are traditionally part of a pre-university mathematics course such as calculus and statistics. Students are encouraged to solve real-world problems, construct and communicate this mathematically and interpret the conclusions or generalizations. Students should expect to develop strong technology skills, and will be intellectually equipped to appreciate the links between the theoretical and the practical concepts in mathematics. All external assessments involve the use of technology. Students are also encouraged to develop the skills needed to continue their mathematical growth in other learning environments. The internally assessed exploration allows students to develop independence in mathematical learning. Throughout the course students are encouraged to take a considered approach to various mathematical activities and to explore different mathematical ideas.

Group 6: The Arts

IB Art 11 & 12 Standard Level (SL)

IBAR101 & IBAR102

Grades: 11 & 12

College Prep: Yes

Credit: 1.0/year

Duration: 2 Years

Fee: \$30/Yr

The IB Diploma Programme visual arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to further study of visual arts in higher education as well as for those who are seeking lifelong enrichment through visual arts. The role of visual arts teachers should be to actively and carefully organize learning experiences for the students, directing their study to enable them to reach their potential and satisfy the demands of the course. Students should be empowered to become autonomous, informed and skilled visual artists.

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AP & Honors Course Descriptions

Honors English 9

EN55A/B

Grades: 09

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

Summer reading is required for all students entering the class. This is a course for those who have shown above average ability and motivation to progress through future AP English courses. Students will work with a variety of challenging literary forms including short stories, novels, poetry, drama and nonfiction. Activities will incorporate the humanities, composition, application of terminology, speech, independent reading, growth in academic responsibility, clarification of language skills, grammar in action, alternative assessment strategies, vocabulary building, and learning options that will address various learning styles. Prerequisite: AP Agreement Form.

Honors English 10

EN65A/B

Grades: 10

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

Pre AP English 10 requires summer reading. It integrates reading, writing, listening and speaking. It is designed to challenge students' thinking through units in fiction, mythology, nonfiction, poetry and drama. Considerable opportunities in both writing and speaking give the advanced students greater opportunities to polish their skills. Writing focuses on debatable topics, literary texts and non-fiction texts. Vocabulary study, intensive outside reading and writing assignments are an expectation for Pre AP coursework. Prerequisite: AP Agreement Form.

AP English Literature & Composition

EN90AW/BW

Grades: 11

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

Students in AP English 12 have required summer reading and are expected to take the AP exam in May. Advanced Placement English Literature is designed to allow students to study college-level composition and literature at the high school level. Students practice the skills of close reading, critical writing and analytical discussion in an atmosphere of academic challenge. This course is designed for the serious college bound student and allows not only preparation for college but also the chance to earn college credit and/or advanced standing by taking the AP English Literature Exam. We will follow the curricular requirements in the AP English course description. Prerequisite: AP Agreement Form.

AP English Language & Composition

EN91AW/BW

Grades: 12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

Students in AP English Language and Composition is to enable students to write effectively and confidently in their college courses and in their professional and personal lives. The course emphasizes the synthesis, analytical, and argumentative writing that forms the basis of academic and professional communication. Additionally, students read complex text with critical attention to a writer's purpose and rhetorical strategies. This course is designed for the serious college bound student and allows not only preparation for college, but also the chance to earn college credit and/or advanced standing by taking the AP English Language Exam. Prerequisite: AP Agreement Form.

Honors Geometry

MA65A/B

Grades: 9-10

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

This course aligns with the AZCCRS for Geometry by extending the informal geometry work from grade 8 along with the formal mathematics of Algebra 1 in a rich and rigorous learning experience. Proofs of all types will be used as a basis for constructing viable arguments. Students will be expected to explain their reasoning and critique the reasoning of others through discourse, writing and modeling. Appropriate technology will be used to enhance mathematical understanding. Beyond the standard geometry curriculum, additional opportunities for extended learning will be offered by the

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instructor and required by the student. Prerequisite: 1 credit of Algebra 1 and a teacher recommendation (MA50 A/B) and AP Agreement Form.

Honors Algebra II

MA75A/B

Grades: 09-11

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Beyond the standard algebra 2 curriculum, additional opportunities for extended learning will be offered by the instructor and required of the student. Prerequisite: 1 credit of Algebra 1 and 1 credit of Honors Geometry and a teacher recommendation and AP Agreement Form.

AP Calculus IAB

MA98AW/BW

Grades: 11 -12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

This course will cover the first semester college calculus and provides a study of the concepts of function, limit, continuity, derivative, integral and their applications to real-world situations. Students will synthesize skills from critical areas to complete complex application tasks as well as adhere to a higher expectation of understanding and justification of their work. Students may earn 3-6 hours college credit based on the score received on the National Advanced Placement Calculus A/B exam. All students are expected to take the exam. Prerequisite successful completion of Pre-AP Pre-Calculus and AP Agreement form.

AP Calculus IIBC (Not offered during the 2020-21 school year)

MA102AW/BW

Grades: 11-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

This course will review the entire year of AP Calculus the first semester, and then will cover the second semester college calculus topics such as integration by parts, improper integrals, partial fractions, infinite series, and conics. Students will synthesize skills from critical areas to complete complex application tasks as well as adhere to a higher understanding of explanation and justification of their work. Students may earn 3-6 hours college credit based on the score received on the National Advanced Placement Calculus B/C exam. All students are expected to take the exam. Prerequisite: successful completion of AP Calculus 1 and AP Agreement form.

AP Statistics

MA99AW/BW

Grades: 11 -12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

This course will be equivalent to a non-calculus based college course in statistics. Students will be expected to plan and conduct a study from which they will do an analysis and make statistical inferences. Students may earn 3 hours college credit if they pass the National Advanced Placement Statistics test. All students are expected to take the AP exam. Prerequisite: successful completion of Algebra II and teacher recommendation and AP Agreement Form.

AP Biology (Not offered during the 2020-21 school year)

SC98A/B

Grades: 9-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee: \$25.00

Advanced placement (AP) biology is an introductory college-level biology course. The course is designed to provide students with an enduring, conceptual understanding of content rather than an accumulation of facts, or broad content coverage model of instruction. Students will develop an appreciation of the study of life as we explore the following topics: cellular structure and specialization, energy transfer, cellular processes and metabolism, biochemistry, genetics, evolution, and ecology. The curriculum places emphasis on developing advanced critical thinking and problem solving

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skills. Students will cultivate their understanding through engagement in inquiry-based activities, and authentic science practices such as designing investigations, modeling, collecting and analyzing data, and constructing evidence-based explanations. Students planning to take the AP biology course should be highly motivated and prepared to dedicate about 5 to 8 hours a week outside of class time to complete course work and readings. As a college level course, the amount and complexity of the material will be higher than a traditional high school biology course. Therefore, students will be expected to keep up with their work and come to class each day prepared and focused in order to excel in this challenging endeavor. AP biology will conclude with a college-level assessment that enables students to demonstrate their proficiency in college-level coursework. AP exams are an essential part of the AP experience. Students will have the opportunity to earn college credit with a successful score (usually 3 or higher) on the AP exam given in May. Completion of AP biology will demonstrate to college and university admissions that students pursued challenging material and rigorous coursework. Prerequisite: AP Agreement Form.

AP Chemistry (Offered during the 2020-21 school year) **SC99AW/BW**

Grades: 11-12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$25.00

This Advanced Placement course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. The AP Chemistry course is designed to be taken only after the successful completion of high school chemistry 1. Topics include Atomic theory and atomic structure, chemical bonding, molecular models, behavior of gases, solutions, and solids, chemical reactivity and stoichiometry, chemical kinetics, thermodynamics, and dynamic equilibrium. Approximately 20% of the course is dedicated to laboratory experiments. Prerequisites: Teacher recommendation and instructor approval. Students enrolling in AP Chemistry should have successfully completed Algebra 2 with a C or better, with the *suggested* enrollment in Pre-Cal or higher. Students enrolling in AP Chemistry must also have completed Chemistry 1 with a B or better or have prior instructor approval. AP Agreement Form.

AP Physics I **SC91AW/BW**

Grades: 11 -12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$25.00

This course will be offered every other year. This Advanced Placement course is a college level, algebra-based study of Newtonian Mechanics (including rotational dynamics and angular momentum) work, energy, power, and mechanical waves and sound. The course will also introduce electric circuits. This course places a heavy emphasis on college-level laboratory work with the extensive use of technology and sensors. Engineering projects will be done throughout the course to help students apply the physics concepts learned in class. Students wishing to take the AP exam to earn AP credit for either algebra or calculus-based physics may elect to take the AP Physics exam in May. AP Physics 1 is the first of a two-year course sequence. AP Physics II will cover fluid mechanics, thermodynamics, electricity and magnetism, optics, and atomic and nuclear physics. Prerequisites: It is expected that students enrolling in this course have strong math skills in graphical methods, solving equations, and basic trigonometry. Students enrolling in AP Physics 1 should have completed geometry with a C or better, and be concurrently enrolled in Algebra II or higher. AP Agreement Form.

AP Physics II (Not offered during the 2020-21 school year) **SC97AW/BW**

Grade: 11-12 **College Prep:** Yes **Credit:** 1.0 **Duration:** 1 year **Fee:** \$25.00

This course will be offered every other year. This Advanced Placement course is a college level, algebra-based study of electricity, magnetism, fluid dynamics, thermodynamics, light, geometric and physical optics, and modern physics. Laboratory work and problem solving is heavily emphasized in this course. Students wishing to take the AP exam to earn AP credit for algebra-based physics may elect to take the AP Physics exam in May. Prerequisites: It is expected that students enrolling in this course have strong math skills in graphical methods, solving equations, and basic trigonometry. Students enrolling in AP Physics 2 should have completed geometry with a C or better, and be concurrently enrolled in Algebra II or higher. Students enrolling in AP Physics 2 must also have taken one or more of the following with a C or better: Pre-AP/CIT Physics, Physics, or AP Physics 1. AP Agreement Form.

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AP World History

SS65AW/BW

Grades: 10

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

Students will understand, discuss, and write intelligently about major global historical developments from 1200 C.E. to the present. Students will develop their ability to interpret primary and secondary sources, compare civilizations, and use geographic and statistical data to draw conclusions about the causes and effects of historical events. This course represents a freshman-level university course and students may receive university credit through the successful completion of the AP World History exam in May. Prerequisite: AP Agreement Form

AP US History

SS76AW/BW

Grades: 11

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

AP US History is a year-long class designed to provide an in depth study of the United States History from its beginning roots to the modern era. It prepares students for college level work as well the Advanced placement exam in the spring. All students in this course will be highly encouraged to take the AP Exam for which they can earn college credit. Students will receive a weighted grade for this class only if they complete both terms of the course. Prerequisite: AP Agreement Form.

AP American Government

SS86W

Grades: 12

College Prep: Yes

Credit: 0.50

Duration: 1 semester

Fee:

Advanced Placement American Government is an in-depth course that offers a critical exploration of the American political process. The college level curriculum explores such topics as constitutional development, political socialization, the impact of interest groups, and interrelationship of the three branches of government. This class also prepares interested students for the Advanced Placement Government exam. This class fulfills 12th grade American Government requirement. Prerequisite: AP Agreement Form .

AP Microeconomics

SS96W

Grades: 12

College Prep: Yes

Credit: 0.50

Duration: 1 semester

Fee:

This course is an introduction to microeconomics. Microeconomics introduces students to the cost–benefit analysis that is the economic way of thinking. This analysis is used to understand smaller segments of the economy—specifically, consumers and producers—as they interact in output markets and resource markets, and to understand the government’s impact on these specific economic units. This course has a strong emphasis on analyzing current events and the practical implementation of economic decisions and policies. The course does fulfill the Arizona’s state standards for Economics. Prerequisite: AP Agreement Form.

AP Spanish Language & Culture

ML102AW/BW

Grades: 10 -12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

This course will be offered every other year and is available for the 2020-21 school year. It will not be available the 2021-22 year. The AP Spanish Language and Culture course emphasizes communication by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products, practices and perspectives. College credit is granted to students who achieve a score of 3,4,or 5 on the AP Spanish test. Prerequisite: AP Agreement Form.

AP Spanish Literature & Culture (Not offered during the 2020-21 school year)

ML104A/B

Grades: 11-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

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This course will be offered every other year and is **not** available for the 2020-21 school year. It will be available the 2021-22 year. AP Spanish Language & Literature is designed to introduce students to the formal study of Peninsular Spanish, Latin American, and U.S. Hispanic literature. The course aims to develop students' critical reading and analytical writing skills in Spanish as well as their ability to make interdisciplinary connections and explore linguistic and cultural comparisons. Students are expected to discuss literary texts and their different historical, socio-cultural and geopolitical contexts in a variety of interactive oral and written formats in Spanish. Additionally, students will analyze themes and features of artistic representations, audiovisual materials and audio sources in Spanish related to course content. College credit is granted to students who achieve a score of 3, 4 or 5 on the AP Spanish test. Prerequisite: AP Agreement Form.

AP Music Theory

MU95AW

Grades: 11-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee:

Through this class, students will gain a better understanding of the way that music is constructed. Concepts included will be basic music notation and analysis, key signatures, chord recognition and resolution, rhythmic construction, interval recognition, and basic compositional techniques. The class will include ear training and sight singing, which will help students to develop and expand their auditory recognition of concepts covered in class. An overview of music history will also be included as part of the class. Overall, AP Music Theory will help develop each student's musicianship and overall understanding of written music. Prerequisites: 1. Membership in a high school music performance ensemble OR 2. Instructor Approval AND 3. Must be a current junior or senior. Prerequisite: AP Agreement Form.

Computer Science Principles (with AP option)

CT102A/B

Grades: 11-12

College Prep: Yes

Credit: 1.0

Duration: 1 year

Fee: \$30

Prerequisite: AP Agreement Form.

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

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Special Education Department Course Offerings

Resource Success 101/Health

Grades: 09 -12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

SOCIAL STUDIES

Resource World History/Geography

GNPSS60A/B

Grades: 10-12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course is designed for students who qualify for special education services. World History is a one year survey course designed to give students an overview of the history of the world from approximately 8,000 B.C.E. to the present. Students will examine several themes in history including the interactions between humans and the environment, development and interactions of cultures, state-building, creation and interaction of economic systems, and the development and transformation of social structures. Students should expect to do a significant amount of reading, writing, and research through various projects throughout the school year. Students will also gain an understanding of how to use technology appropriately as the social studies department continues to integrate technology into its courses.

Resource US History

GNPSS70A/B

Grades: 11-12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course is designed for students who qualify for special education services. US History will allow students to analyze our national experience through time, to recognize the relationships of events and people, and to interpret significant patterns, themes, ideas, beliefs, and turning points in AZ and American history. The course covers the entire course of American History.

Resource American Government

GNPSS80

Grades: 12 **College Prep:** No **Credit:** 0.50 **Duration:** 1 semester **Fee:**

This course is designed for students who qualify for special education services. This course is offered in the senior year as a course to better prepare the senior student for the responsibilities of the adult world. American Government investigates state and federal government in today's society and the social problems that concern each government. It also provides students with a realistic background for solving and understanding problems that confront the individual. Arizona Government is integrated into the course. This is a one semester class. Students must also enroll in Economics.

Resource Economics

GNPSS90

Grades: 12 **College Prep:** No **Credit:** 0.50 **Duration:** 1 semester **Fee:**

This course is designed for students who qualify for special education services. Free Enterprise is designed to give the student a better understanding of the American economic system. It also provides students with a realistic background for solving and understanding problems that confront the individual. This is a one semester class required for graduation. Students must also enroll in American Government.

MATH

Resource Pre-Algebra

GNPMA42A/B

Grades: 09 -12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course is not offered for the 2020-21 school year. This course is designed for students who qualify for special education services. This course reinforces arithmetic skills, developing the pre-algebra concepts of variable recognition,

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signed numbers, formulas, exponents and percentages. Students will be introduced to algebraic symbolism, simplifying expressions, and solutions to elementary equations.

Resource Algebra Foundations

GNPMA44A/B

Grades: 09 -12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course is offered for the 2020-21 school year. This course is designed for students who qualify for special education services. Algebra Foundations is designed to give students the fundamental skills necessary to succeed in the math course taken the following year. Students will explore arithmetic operations, number systems and properties, measurement, geometry, and an introduction to algebraic thinking and concepts.

Resource Algebra I

GNPMA50A/B

Grades: 09 -12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course is designed for students who qualify for special education services. This course focuses on the formal definition of functions with particular emphasis on the understanding and application of linear, quadratic, and exponential functions. The AZCCRS standards for Algebra 1 also include statistics and modeling as part of this redesigned and more rigorous Algebra 1 course. Appropriate technology will be used to enhance mathematical understanding and problem solving skills.

Resource Geometry

GNPMA60A/B

Grades: 10 -12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course is designed for students who qualify for special education services. This course introduces the student to traditional Geometry topics such as deductive reasoning, properties of polygons and circles, area, surface area and volume formulas, proofs, and basic transformational geometry. Algebra is integrated throughout the course.

Resource Consumer Math

GNPMA46A/B

Grades: 12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course is designed for students who qualify for special education services. Consumer Math is designed to teach students everyday math skills such as balancing a checkbook, creating a budget, buying a car or home, personal record keeping and paying taxes. The goal of a Consumer Math course is to enable students to make educated decisions on matters of personal finance.

ENGLISH

Resource English 9

GNPEN50A/B

Grades: 09 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course is designed for students who qualify for special education services. This course will integrate basic reading, writing, listening and speaking skills through the survey of literature comprised of novels, short stories, poetry, drama and nonfiction choices. Activities will focus on the incorporation and application of composition, vocabulary development, speech, literary elements and language fundamentals. Texts are selected to build upon students' prior learning, to improve reading strategies and to encourage critical thinking. Students will utilize a writing process as they compose various forms of writing.

Resource English 10

GNPEN60A/B

Grades: 10 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course is designed for students who qualify for special education services. English 10 integrates reading, writing, listening and speaking. Units in fiction, nonfiction, poetry and drama are studied to build on students' previous background, as well as preparing students for future high school and college courses. Persuasive writing is a significant focus of the course. Vocabulary development and global literature round out this dynamic course.

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Resource English 11

GNPEN70A/B

Grades: 11 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course is designed for students who qualify for special education services. English 11 features American Literature and foundational texts through the 20th century. The text includes prose, poetry, fiction, non-fiction, and drama. Literary selections build on students' previous studies and provide exposure to difficult texts. Writing focuses on the standards and includes grammar and usage skills development.

Resource English 12

GNPEN80A/B

Grades: 12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course is designed for students who qualify for special education services. English 12 is a survey course that integrates listening, speaking, reading and writing skills, while ensuring that previous learning objectives (standards from 9th – 11th grade) are all in place. The course focuses on developing critical close reading and thinking skills with an emphasis on preparing students for work environments. Students will read a variety of fiction and nonfiction materials and write on a number of topics dealing with career, job opportunities and informational text in general.

Resource Social Skills

GNPEL52A/B

Grades: 09-12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course is designed for students who qualify for special education services. The Social Skills class is designed to provide students with the opportunity to work on assignments, organize their materials, plan their day, problem solve, and receive direct social skills instruction. The class period is divided, allowing time for group or individual social skill instruction and study time.

SCIENCE

Resource Life Science

GNPSC50A/B

Grades: 09-12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:**

This course is designed for students who qualify for special education services. Life Science is an introduction to biology course. Students develop problem-solving skills and strategies while performing laboratory and field investigations of fundamental biological concepts and principles. Topics will include the study of cells, genetics, classification of living things, and ecology. This course will help students prepare for the science AIMS test. Upon successful completion of Life Science, students will receive one credit which fulfills one of the three science credits required for graduation from CHS.

Resource Earth Science

GNPSC54A/B

Grades: 09 -12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:** \$15.00

This course is designed for students who qualify for special education services. This laboratory course places an emphasis on physical geology. The Earth's origin, structure, and composition will be covered, as well as dynamic features such as volcanoes, plate tectonics, and earthquakes. Activities include data collection, modeling, map reading, identifying rocks and minerals. The local geology of the Flagstaff area and the Grand Canyon is also examined.

Resource Biology

GNPSC60A/B

Grades: 09 -12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:** \$15.00

This course is designed for students who qualify for special education services. This is an introductory course in Biology which emphasizes the learning of problem-solving skills through scientific inquiry and laboratory activities. Topics include taxonomy, cell biology and metabolism, genetics, ecology, evolution. This course is a lab science.

Gen School to Work

Grades: 9-12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 year **Fee:** None

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This course is designed for students who qualify for special education services. A variety of supported work placement educational experiences are provided through one or two hour blocks. Both on and off campus sites are employed and job coaching is provided. Course may be repeated for credit. TSW staff should be consulted before placement.

Gen On the Job

Grades: 9-12 **College Prep:** No **Credit:** 1.0 **Duration:** 1 semester or more **Fee:** None

This course is designed for students who qualify for special education services. This course involves students working off campus in unsupervised (by FUSD staff) paid or unpaid work experiences. Students must acquire own work placement and must submit work hours and positive work evaluation from work site supervisor. A maximum of two credits per semester (or summer) and a total of six elective credits can be earned, with a minimum of 60 hours worked per ½ credit. TSW staff should be consulted before placement.