# Course Guide

**Catalina Foothills High School**

Tucson, Arizona

**Course Guide**

2017 ~ 2018

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### Course Descriptions

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March 8, 2017
CFHS Credit Information

Students must complete a minimum of 24 credits for graduation

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4.0</td>
<td>English 9, English 10, English 11, and English 12</td>
</tr>
<tr>
<td>Math</td>
<td>4.0</td>
<td>Algebra 1, Geometry, Algebra 2, and additional post-Alg 2 math</td>
</tr>
<tr>
<td>Science</td>
<td>3.0</td>
<td>Biology, Chemistry, and Physics or Field or Astronomy or Environmental Science</td>
</tr>
<tr>
<td>Social Studies</td>
<td>4.0</td>
<td>Global Issues, Western Civ or AP Euro, US History, and Government (.5) and Economics (.5)</td>
</tr>
<tr>
<td>World Languages</td>
<td>2.0</td>
<td>Spanish or Chinese (or, if transfer, two credits of other approved language - see page 17)</td>
</tr>
<tr>
<td>Fine Art or CTE</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Kinetic Wellness</td>
<td>1.5</td>
<td>.5 Health, .5 PE individual fitness, and .5 PE group fitness</td>
</tr>
<tr>
<td>Electives</td>
<td>4.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>24.0</td>
<td></td>
</tr>
</tbody>
</table>

Credit accepted towards CFSD graduation requirements from non-CFHS classes include credits earned through alternative courses, e.g., correspondence courses (limited to 1 credit in each of the four major subject areas of English, Math, Science, and Social Studies), online, credit recovery, and/or by passing appropriate courses at the college or university level if the courses are determined to meet or exceed standards and criteria established by the Board and in accord with A.R. S. 15-701.01. The high school principal will evaluate alternative courses and approve them for credit.

Course Load: Freshmen and Sophomores must be enrolled in seven classes each semester or six classes and an assigned Study Hall. Juniors and Seniors must carry a minimum of six classes on their schedule each semester.

Course Availability: Students will be assigned to classes as space is available. Courses listed will only be offered if there is sufficient enrollment and appropriate staffing.

Course Notations:
- Prerequisite – Students must meet noted prerequisites (grade level, class completed, grade earned, other).
- Co-requisite – Students must be enrolled simultaneously in noted courses.
- Teacher Recommendation – Requires current subject teacher’s signature.
- Teacher Approval – Requires course instructor’s signature.

Schedule Changes: Every effort is made to get students into their first or second choice courses. Once school starts, student requests for schedule changes are restricted and based on the following criteria:

**ACCEPTABLE reasons for Schedule Change may include:**

- Failure in a prerequisite course
- Need to add required course to graduate on time
- Successfully completed course
- Medical reasons (requires a doctor’s note)

**UNACCEPTABLE reasons for Schedule Change include,** but are not limited to:

- A free period or lunch change
- A teacher change
- Unnecessary change

Note: CFHS reserves the right to change student schedules for administrative reasons at any time (e.g., class leveling, etc.)

Withdrawing from a Class: Students may request to withdraw from a class prior to the end of quarter without any record on the transcript. If withdrawing after the end of quarter, a WF (Withdrawal Failing) will be noted on the transcript. This designation will not affect the student’s grade point average but will affect athletic eligibility. Note: Students may only withdraw from a class if they maintain the minimum course load requirement of six for-credit classes.

State Assessments

**AzMERIT** (Arizona’s Measurement of Educational Readiness to Inform Teaching): Students in the class of 2016 and beyond will take end-of-course assessments in English 9, English 10, English 11, Algebra 1, Geometry, and Algebra 2.

**AIMS Science** (Arizona Instrument to Measure Standards): Students enrolled in a life science course (i.e., CFHS Biology) at grades 9 or 10 will take the AIMS Science assessment.

**Civics Test:** Students in the class of 2017 and beyond are required to pass a state-mandated Civics test to meet graduation requirements.

**Seal of Biliteracy:** Optional assessment. Students who pass a designated World Language assessment in Spanish, Mandarin Chinese (simplified or traditional), French, Hebrew, Japanese, German, Arabic, or Russian, and pass English through grade 11, will be awarded the Arizona Seal of Biliteracy on their diploma and a notation on their transcript.
Honors and Advanced Placement (AP) Courses

Honors Courses:

Honors courses cover a wider scope of material, in greater depth, at a faster pace than the standard courses. The more rigorous Honors courses are designed for students who are interested in the subject area, are self-motivated and independent learners, have well-developed study habits and time management skills, and generally excel academically. Students are encouraged to take the highest-level courses that are appropriate for them. Honors course requests should be made thoughtfully as students are not able to make a level change if they decide they don’t like the work or the course is too hard. Students and parents must sign an Honors/AP Agreement to be placed in Honors or AP courses. Honors courses are given an additional .25 weight in the GPA calculation.

Students are not obligated to take Honors courses in all subject areas or in every year, however, but may pick and choose among their interests and skill areas. A student who takes Honors Biology is not required to take Honors Chemistry. Similarly, a student who takes standard English as a freshman is not precluded from taking Honors English as a sophomore.

Honors Course Eligibility:

**English:** Students who are currently in Honors English or who are receiving an A in standard English are eligible for and strongly encouraged to take Honors (or AP) English. Other students interested in taking H/AP English classes may also commit to the more rigorous work. English courses at all levels award Honors credit/distinction for students in standard/non-Honors classes who consistently perform at the Honors level in their coursework and assessments.

**Social Studies:** Social Studies courses at all levels award Honors credit/distinction for students who consistently perform at the Honors level in their coursework and assessments. Separate AP courses are offered grades 10-12 and students who understand and commit to the increased rigor may choose to take AP coursework in Social Studies.

**Math:** Students must demonstrate proficiency by earning an 83% both semesters in the prerequisite Honors course (or a 93% average in the prerequisite standard course both semesters), and earn a minimum 83% on the Honors proficiency exam (given during each semester’s Final Exam Week) to be eligible for the next level Honors course. Students who fail to meet one of those four data points may submit an appeal, which includes a teacher letter of recommendation. The Department Chair will convene panel of math teachers to review appeals. Note: Algebra 1 does not have a separate Honors section but students who perform at the Honors level may earn Honors credit/distinction (H).

**Science:** Students must earn a minimum B average in the prerequisite Honors course or an A both semesters in the prerequisite standard course to be eligible for the next level Honors course. Math skills are also important for success in science courses and there may be a math co-requisite. See specific course description for requirements.

**Spring Review:** As spring semester grades are not available at the time of course selection, math and science Honors/AP requests will be reviewed at the end of spring semester to confirm eligibility. Students who fail to meet the grade eligibility or teacher recommendation requirement for Honors/AP math or science will be placed in a standard section of the course.

**Honors Credit/Distinction (HC)**

Honors credit/distinction is available in all standard **English** and **Social Studies** courses and in **Algebra 1**. Students who consistently perform at the Honors level in their coursework and assessments will be awarded Honors credit (additional .25 weight in the GPA calculation) and have an (H) designation added to their transcript.

**Note for Middle School Students re Honors coursework:**

Honors **English 9** is open to any student who wishes to commit to the rigor of Honors coursework. **Social Studies** does not have a separate Honors section. **Math** placement will be determined by a proficiency assessment given in the spring to 8th graders. Students who take Algebra 1 as freshmen may earn Honors credit/distinction by performing at the Honors level. Orange Grove and Esperero students interested in **Science** Honors courses must have teacher recommendation. New-to-district students must have received an A average (no more than one quarter B) in 8th grade science.

Note: Grade review will occur over the summer. Placement in-Honors math and science is contingent upon continued eligibility.
Advanced Placement (AP) Courses

AP Courses are college level classes, taught at the high school, which require significant reading, writing, and independent study. Courses are challenging and offered to academically motivated students who wish to pursue excellence in their studies. AP coursework covers a national curriculum that prepares students to take the Advanced Placement exam for their subject(s) in the spring. Students who do well on the AP exam may be granted credit by their college for that subject. Note: Students who take an AP class are expected to take the AP exam.

Students are expected to make informed and committed decisions prior to signing up for the course. Students and parents must sign an AP Agreement, which is a statement of understanding regarding the rigor of the coursework and commitment to the yearlong course. Students are not able to drop an AP course without extenuating circumstances and proof that everything possible has been done for success.

AP Information Sessions

AP course information is shared each year during spring course selection to help students make an informed decision regarding their coursework. Instructors review course content, structure, rigor, and expectations for AP Courses in subject area classes or in an announced group meeting which interested students are expected to attend.

Students and parents must sign the AP Agreement on the course request form to be eligible for assignment to the AP course.

H/AP Credit/Transcript Notation:

Honors courses are identified by “H” on the student’s transcript and are weighted an additional .25 GPA points. AP courses are identified by “AP” on the student’s transcript and are weighted an additional .5 GPA points.

<table>
<thead>
<tr>
<th>Earned Weight</th>
<th>Grade</th>
<th>Std</th>
<th>H</th>
<th>AP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>4.0</td>
<td>4.25</td>
<td>4.5</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>3.0</td>
<td>3.25</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>2.0</td>
<td>2.25</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Note: + and – do not affect GPA weighting

Pima County JTED Programs

CFSD is a member of the Pima County Joint Technological District (JTED). In conjunction with business and industry, JTED provides career and technical education programs for students that focus upon both the educational and employment needs of Pima County. JTED courses provide access to state-of-the-art equipment and training programs in a variety of career pathways, offer articulated college-level credit (applicable courses only), offer the opportunity for industry certifications, and the opportunity to work at an advanced level in a variety of career areas.

CFHS JTED course offerings are listed below. See the course descriptions for descriptions and prerequisite information.

Career and Technical Education

- Graphic Design 1, 2, 3 and Publication
- Photo Imaging 1, 2, 3
- Media Production Fundamentals, Advanced Media Production 1 & 2, Media Co-Op
- Introduction to Digital Communications: Writing for News/Falcon Voice, Digital Communications: Writing for Investigative Reporting, Digital Communications: Broadcast News Production

Science

- Bioscience ~ Biology: Biotech Foundations, Biomedical 2 Course (2018-19), AP Biology
- Introduction to Engineering Design, Principles of Engineering, Digital Electronics, Engineering Design and Development

3D Animation & Game Design • Automotive Technology • Aviation Technology • Certified Caregiver • Cosmetology • Construction Technology • Culinary Arts • Early Childhood Education • Electrical Utility Technician • Emergency Medical Technician • Fire Services • Graphic Communications • Healthcare Information Technology • Heavy Equipment Operations • Information Technology • Law, Public Safety & Security • Licensed Nursing Assistant • Medical Assistant • Precision Manufacturing • Physical Therapy Technician • Veterinary Science
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English

Four years (4 credits) required for CFSD graduation: English 9, English 10, English 11, and English 12 (standard/HC, H, or AP options).

Honors Credit

Students may take a designated Honors course to earn Honors credit (additional .25 GPA weight).

English courses at all levels award Honors credit/distinction (additional .25 GPA weight) for students in standard/non-Honors classes who consistently perform at the Honors level (3.5 rubric score) in their coursework and assessments.

English 9: Global Perspectives #1100

This course emphasizes a wide variety of modern texts from Africa, Asia, Latin America and the Middle East. The course emphasizes reading and writing of narrative, analytical, and argumentative text, research skills and critical thinking skills, as well as the conventions of written English. Students who consistently perform at the Honors level in their coursework and assessments will be awarded Honors credit/distinction for this class.

Grade: 9
Prerequisite: None
Credit: 1 credit, 2 semesters

Honors English 9: Global Perspectives #1103

This course emphasizes a wide variety of modern texts from Africa, Asia, Latin America and the Middle East. Students will read and analyze a variety of texts and write in response to those texts in order to gain an understanding of the world, themselves, and how to communicate effectively with others. The course emphasizes reading and writing of narrative, analytical, and argumentative text, research skills and critical thinking skills, as well as the conventions of written English. Because this is an Honors course, students will be expected to demonstrate independent learning and a more advanced level of performance. Instruction will target the Honors level learning goals.

Grade: 9
Prerequisite: None
Credit: 1 credit, 2 semesters

Humanities 9: Global Studies (English) #1111

Humanities is an interdisciplinary English and Social Studies class. The Humanities 9 curriculum encompasses all of the standards and benchmarks of both the English 9 and Global Issues 9 courses; however, the course is structured so that the content is integrated. Students will examine the history, culture, and geography of four non-European areas of the world: Africa, Asia, Middle East, and Latin America. They will study these regions through a wide variety of genres as well as primary and secondary sources. The course emphasizes analytical reading and writing of narrative and expository text, research skills, and critical thinking skills, as well as factual knowledge of geography and history, vocabulary, and the conventions of written English. Students who consistently perform at the Honors level in their coursework and assessments will be awarded Honors credit/distinction for this class, and all students will be prepared for any sophomore level English or Social Studies course.

Grade: 9
Prerequisite: None
Co-requisite Humanities 9: Global Issues
Credit: 2 credits, 2 semesters (English and Social Studies)

English 10: Western Perspectives #1120

This course emphasizes a wide variety of fiction and non-fiction texts from Western perspectives throughout history. Students read, write, and analyze expository, narrative, and argumentative texts in order to gain an understanding of the world, themselves, and how to communicate effectively with others. In this course, students are expected to develop vocabulary, write correctly in Standard English, undertake independent research, and think critically. Students who consistently perform at the Honors level in their coursework and assessments will be awarded Honors credit/distinction for this class.

Grade: 10
Prerequisite: English 9 or Humanities 9
Credit: 1 credit, 2 semesters

Honors English 10: Western Perspectives #1123

This course emphasizes a wide variety of fiction and non-fiction texts from Western perspectives throughout history. Students read, write, and analyze expository, narrative, and argumentative texts in order to gain an understanding of the world, themselves, and how to communicate effectively with others. In this course, students are expected to develop vocabulary, write correctly in Standard English, undertake independent research, and think critically. Because this is an Honors course, students will be expected to demonstrate independent learning and a more advanced level of performance. Instruction will target the Honors level learning goals.

Grade: 10
Prerequisite: English 9 or Humanities 9
Credit: 1 credit, 2 semesters

Humanities 10: Western Studies #1131

Humanities is an interdisciplinary English and Social Studies class. The Humanities 10 curriculum encompasses all of the standards and benchmarks of both the English 10 and Western Civilization 10 courses; however, the course is structured so that the content is integrated. Students will examine the history, culture, and geography of Europe and its surroundings and the development of "Western thought." They will study these regions through a wide variety of genres: fiction, biography, philosophy, and poetry, as well as primary and secondary sources. Students who consistently perform at the Honors level in their coursework and assessments will be awarded Honors credit/distinction for this class, and all students will be prepared for any junior level English or Social Studies course.

Grade: 10
Prerequisite: Humanities 9, or English 9 and Global Issues
Co-requisite Humanities 10: Western Studies
Credit: 2 credits, 2 semesters (English and Social Studies)

English 11: American Perspectives #1140

Through a wide variety of texts, the course will explore significant themes and traditions in American literature. The course emphasizes analytical reading and writing of narrative and expository text, literary analysis, critical thinking skills, and oratory. In preparation for senior year and beyond, students in this class will also develop the skills to create effective job or college applications. Students who consistently perform at the Honors level in
their coursework and assessments will be awarded Honors credit/distinction for this class.
Grade: 11
Prerequisite: English 10 or Humanities 10
Credit: 1 credit, 2 semesters

Humanities 11: American Studies (English)  #1151
The Humanities 11 curriculum encompasses all of the standards and benchmarks of both the English 11 and American History 11 courses; however, the course is structured so that the content is integrated. Students will examine the history, culture, and geography of the United States of America, from the colonial era to the present. They will study the development of our country through a wide variety of genres: fiction, biography, popular culture, and poetry, as well as primary and secondary sources. The course emphasizes analytical reading and writing of narrative and expository text, literary analysis, critical thinking skills, and oratory, as well as factual knowledge of geography and history, vocabulary, and the conventions of written English. In preparation for senior year and beyond, students in this class will also develop the skills to create effective job or college applications. Students who consistently perform at the Honors level in their coursework and assessments will be awarded Honors credit/distinction for this class and all students will be prepared for any senior level English or Social Studies course.
Grade: 11
Prerequisite: Humanities 10, or English 10 and Western Civ
Co-requisite Humanities 11: American Studies (Social Studies)
Credit: 2 credits, 2 semesters (English and Social Studies)

AP English 11: Language and Composition  #1154
This college-level course engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. This course provides students with opportunities to write about a variety of subjects and to demonstrate an awareness of audience and purpose. Students will synthesize material from primary and secondary sources carefully in their own compositions. The overarching objective is to enable students to write effectively and confidently in their college courses across the curriculum and in their professional and personal lives. Therefore, this course emphasizes the expository, analytical and argumentative writing that forms the basis of academic and professional communication, as well as the personal and reflective writing that fosters the development of writing facility in any context. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. This course prepares students to take the AP English Language and Composition Exam. Note: Students who take an AP class are expected to take the AP exam.
Grade: 11
Prerequisite: English 10
Credit: 1 credit, 2 semesters

English 12: Language and Composition
In English 12: Language and Composition, students read, write, and analyze narrative and expository texts. They are expected to think critically about arguments, synthesize ideas from various sources, write with an effective style and voice, undertake independent research, and use a variety of strategies to communicate with others. Students enhance their understanding of the dynamic between an author, audience, and text/subject, as well as the way standard language conventions and the resources of language contribute to effectiveness in writing. Students integrate content, thinking skills, and technology, as needed, to learn and communicate effectively. In preparation for college, career, and life-long literacy, students will read a variety of texts and write for a variety of audiences and purposes. Students who consistently perform at the Honors level in their coursework and assessments will be awarded Honors credit/distinction for this class.
Grade: 12
Prerequisite: English 11, Humanities 11, or AP English 11
Credit: 1 credit, 2 semesters

AP English 12: Literature and Composition  #1215
This college-level course engages students in the careful reading and critical analysis of literature. The course includes intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit from American and British literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, tone, and themes, as well as smaller-scale elements such as figurative language. This course prepares students to take the AP English Literature and Composition exam. Note: Students who take an AP class are expected to take the AP exam.
Grade: 12
Prerequisite: English 11
Credit: 1 credit, 2 semesters
Note: Interested seniors may take AP English 12: Literature and Composition and another English 12 class as an elective.
English Electives

**Creative Writing** #1301
During this one-semester English elective, students will develop skills in creative writing, from flash fiction, traditional short story, poetry, screenwriting, and creative nonfiction. Students will generate, draft, and revise original pieces of writing and experiment with various writing techniques to refine their sense of how such elements as word choice, imagery, and sound contribute to the distinct voice of the writer. Students will explore how 21st century media have influenced the craft of the writer as they read and write from models as well as from their own personal interests and write for a variety of purposes and audiences.

**Grades:** 10-12  
**Prerequisites:** English 9  
**Credit:** 1 credit, 2 semesters  
* This is a JTED class

**Course may be repeated for credit**

**Speech & Debate** #1322
Speech & Debate is a course designed to give students the opportunity to acquire the skill of public speaking, with an emphasis on debate. Sophisticated oral as well as written communication and argumentation skills will be taught empowering students to take a reasoned and well-substantiated stance in affirmation or negation of a statement concerning a current issue. The course stresses the necessity of thorough research and clear organization in creating a speech and provides extensive practice in informative and persuasive speaking argumentation with a focus on current public issues - local, national, and international - and the historical context surrounding a topic for debate. Critical thinking, research, writing, oral presentation, and teamwork will all come together in this course making students more aware of the world around them and how to expertly convey and substantiate their opinions on issues facing our world. *Students who consistently perform at the Honors level in their coursework and assessments may be awarded Honors credit/distinction for this class.*

**Grade:** 9-12  
**Prerequisite:** None  
**Credit:** 1 credit, 2 semesters  
**Course may be repeated for credit**

**Introduction to Digital Communications: Writing for News** #1341
Introduction to Digital Communications will focus on essential concepts of writing and journalistic skills. The students will use literary skills, journalists’ vocabulary, and reasoning, to write and produce articles for publication. Students will acquire the prerequisite skills necessary for advanced writing and editing in newspaper (Falcon Voice), investigation, media, research, and problem solving through authentic journalistic experiences.

**Grades:** 10-12  
**Prerequisite:** English 9  
**Credit:** 1 credit, 2 semesters  
* This is a JTED class

**Digital Communications: Writing for Investigative Reporting** #1351
Digital Communications: Writing for Investigative Reporting will focus on advanced concepts of journalistic skills (writing, interviewing, editing and publishing) while learning the editorial responsibilities of newspaper production. The students will use writing skills in interviewing, editing, script writing and creation of broadcast news articles and videos for web-based publications.

Students will acquire 21st century skills through teamwork, professional relationships, authentic news projects (Falcon Voice), entrepreneurial publishing, and representing and reporting real-life situations.

**Grades:** 11-12  
**Prerequisite:** Introduction to Digital Communications  
**Credit:** 1 credit, 2 semesters  
* This is a JTED class

**Digital Communications: Broadcast News Production** #1361
Digital Communications: Broadcast News Production will focus on advanced concepts of journalistic skills (interviewing, editing and digital publishing) while learning the fundamentals of media broadcasting. The students will use technical skills in camera interviewing, editing, and production packages for broadcast and web-based publications. Students will acquire 21st century skills through teamwork, professional relationships, authentic broadcast video projects (interviews, documentaries, news features), entrepreneurial broadcasting, and representing and reporting real-life situations.

**Grades:** 11-12  
**Prerequisite:** Introduction to Digital Communications  
**Credit:** 1 credit, 2 semesters  
* This is a JTED class

**AP Seminar** #3502
AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listen to and view speeches, broadcasts, and personal accounts; and experience artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. Note: Students are assessed with two through-course performance assessment tasks and one end-of-course exam. All three assessments are summative and will be used to calculate a final AP score (using the 1-5 scale).

**Grade:** 11-12  
**Prerequisite:** H English 10 (or “A” in English 10) and AP Euro (or “A” in Western Civ)  
**Credit:** 1 credit, 2 semesters

**AP Research** #3503
AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a yearlong mentored, research-based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methods; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. The course culminates in an academic thesis paper of approximately 5,000 words and a presentation, performance, or exhibition on an oral defense.

**Grade:** 12  
**Prerequisite:** AP Seminar  
**Credit:** 1 credit, 2 semesters
**Math**

Four credits of math courses are required for CFSD graduation: Algebra 1, Geometry, Algebra 2, and one additional course/credit beyond Algebra 2.

**MATH PATHWAY**

**Honors Placement in Math**

To ensure that students are prepared for the highest-level math courses at CFHS, students seeking placement in Honors courses must meet the following specific requirements, called Data Points:

**Honors Eligibility Requirements / Data Points**

<table>
<thead>
<tr>
<th>Current Math Course</th>
<th>Semester 1 Grade</th>
<th>Semester 2 Grade</th>
<th>Semester 1 Honors Final</th>
<th>Semester 2 Honors Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honors</td>
<td>≥83%</td>
<td>≥83%</td>
<td>≥83%</td>
<td>≥83%</td>
</tr>
<tr>
<td>Standard</td>
<td>≥93%</td>
<td>≥93%</td>
<td>≥83% on Honors Final</td>
<td>≥83% on Honors Final</td>
</tr>
</tbody>
</table>

Note: Students in standard math must take the Honors level final during the final exam make up period.

Students who meet all academic data points will be approved for the next level Honors course.

Students who meet all but one of the academic data points may submit an appeal of placement.

- The student letter must thoroughly discuss why the required data point was not met.
- The student must explain his/her motivation for wanting to take an honors math class and what the student will do differently than they did in their current class to ensure their success in the next honors level course.
- The student must request that their teacher submit a letter of recommendation to the Department Chair as part of the appeal consideration. The teacher recommendation will be based on routinely observed and documented performance of honors level proficiency in both concepts and skills, as well as consistent work ethic.
- The Department Chair will convene a panel of math teachers to review any placement appeals. All appeal requests are due by June 2, 2017 and decisions will be conveyed to students/parents via email no later than June 9.

**Algebra 1 Essentials**

Algebra 1 Essentials will focus on an understanding of the essential concepts and skills in Algebra 1. The students will use the language of algebra, its vocabulary, symbols and reasoning, to solve problems, and describe relationships and patterns. Using algebraic, numeric, and graphical representations, students will solve problems and acquire the mathematical skills necessary for Geometry and Algebra 2.

Prerequisite: Placement through proficiency assessment and teacher recommendation

Credit: 1 credit, 2 semesters

**Algebra 1 HC**

Algebra 1 students will use the language of algebra — its vocabulary, symbols, and reasoning — to solve problems, describe relationships and patterns, and apply algebra to represent real-life situations. Using algebraic, numerical, and graphical representations, students will use critical and creative thinking to solve problems and acquire the algebraic foundation and skills necessary for Geometry and Algebra 2. Performance expectations will be differentiated for Honors level coursework.

*Students who consistently perform at the Honors level in their coursework and assessments will be awarded Honors credit/distinction for this class.*

Credit: 1 credit, 2 semesters

**Geometry**

Geometry students will use the language of geometry, its vocabulary, symbols, and logic, in order to make and prove conjectures and develop an understanding of geometric principles and relationships. Using the properties of geometric figures, students will write formal proofs, solve problems involving algebra and real-life situations, and visualize and draw geometric figures.

Prerequisite: Algebra 1

Credit: 1 credit, 2 semesters

**Honors Geometry**

Honors Geometry students will use the language of geometry, its vocabulary, symbols, and logic, in order to make and prove conjectures and develop an understanding of geometric principles and relationships. Using the properties of geometric figures, students will write formal proofs, solve problems involving algebra and real-life situations, and visualize and draw geometric figures. Honors Geometry explores mathematical concepts at a faster pace and a greater depth than Geometry. Students in this course will study a greater breadth of geometric concepts and a more formalized approach to proof writing than students in Geometry. This rigorous course is designed to prepare students who excel in mathematics for future Honors courses.

Prerequisite: Algebra 1 and Honors placement requirements (see page 8)

Credit: 1 credit, 2 semesters

**Algebra 2**

Algebra 2 builds upon the concepts and skills learned in previous mathematics courses. Students will study functions and relations, with an emphasis placed on conceptual understanding, graphical representation, problem solving, modeling, and application. Trigonometric concepts are introduced, developed, and extended. This course is designed to prepare students for college-level mathematics.

Prerequisite: Algebra 1, Geometry or Honors Geometry

Credit: 1 credit, 2 semesters
### Honors Algebra 2

Honors Algebra 2 with Trigonometry explores advanced algebraic concepts at a more extensive breadth, depth, and pace than in Algebra 2. Trigonometric concepts are introduced, developed, and extended to include all standards of a trigonometry course. Each topic is studied with emphasis on conceptual understanding, graphical representation and applications through the creation of mathematical models. This rigorous course is designed to prepare students who excel in mathematics for future Honors and AP courses.

**Prerequisite:** Geometry or Honors Geometry, and Honors placement requirements (see page 8)

**Credit:** 1 credit, 2 semesters

### Applications of Mathematics

Applications of Mathematics will extend and refine advanced algebra skills. This course emphasizes problem solving through application and non-routine contexts. Students will refine algebraic and trigonometric concepts studied in Algebra 2, and will be introduced to essential applications of mathematics used to make financial decisions. Units include extended applications of linear and nonlinear systems of equations, exponential growth and decay functions, trigonometric relationships, and business and finance applications. Technology, including graphing calculators (TI-84+) and spreadsheet applications, will be used to support coursework. Applications of Mathematics is designed to prepare students for the study of entry-level college mathematics and to support students’ abilities to make mathematically informed decisions relating to business and finance.

**Prerequisite:** Algebra 2

**Credit:** 1 credit, 2 semesters

### Statistics and Discrete Mathematics

Statistics and Discrete Mathematics is a rigorous study of statistics and discrete mathematics topics, and is designed to be beneficial to students who are interested in pursuing studies/careers in a variety of areas, including the social sciences, medical fields, business, and economics. Students will study key components of statistics such as frequency distributions, data description, probability distributions, confidence intervals, and hypothesis testing. The discrete mathematics units taught during second semester include the mathematics of voting, fair division, and graph theory. This study will prepare students for AP Statistics and/or future college level coursework in statistics.

**Prerequisite:** Algebra 2

**Credit:** 1 credit, 2 semesters

### Precalculus

Precalculus will extend and refine algebraic and trigonometric concepts introduced and developed in Algebra 2. This course emphasizes critical and creative thinking in its design for students who wish to further their advanced algebra skills. Precalculus is taught at a level and pace to prepare students for AP Calculus AB or college coursework in Calculus.

**Prerequisite:** Algebra 2

**Credit:** 1 credit, 2 semesters

### Honors Precalculus

Honors Precalculus will extend and refine advanced algebraic and trigonometric concepts and will introduce concepts in probability, statistics, vectors, parametrics, and polar. This course emphasizes problem solving through application and technology. This rigorous course is designed to prepare students who excel in mathematics for AP Calculus BC and AP Statistics and/or college coursework in Statistics and Calculus.

**Prerequisite:** Algebra 2 or Honors Algebra 2, and Honors placement requirements (see page 8)

**Credit:** 1 credit, 2 semesters

### AP Calculus AB

AP Calculus AB is a college-level course intended for students who have a thorough knowledge of college preparatory mathematics. The content of AB Calculus includes at least as much material as the standard one-semester college calculus course. AB Calculus is a course in introductory calculus designed to prepare students for the Advanced Placement Calculus AB exam, but also for higher-level college courses in mathematics. Students interested in pursuing programs in mathematical sciences, physics, chemistry, life sciences, economics, computer science, or engineering are especially encouraged to take this course. **Note:** Students who take an AP class are expected to take the AP exam.

**Prerequisite:** Precalculus or Honors Precalculus (or demonstrated proficiency on HPrecalc exemption exam)

**Credit:** 1 credit, 2 semesters

### AP Calculus BC

AP Calculus BC is a college-level course intended for students who have a thorough knowledge of college preparatory mathematics. The content of BC Calculus includes at least as much material as the standard two-semester college calculus course. BC Calculus prepares students not only for the Advanced Placement Calculus BC exam, but also for higher-level college courses in mathematics. This course emphasizes the development of mature mathematical reasoning. Students interested in pursuing programs in mathematical sciences, physics, chemistry, life sciences, economics, computer science, or engineering are especially encouraged to take this course. **Note:** Students who take an AP class are expected to take the AP exam.

**Prerequisite:** Honors Precalculus or AP Calculus AB

**Credit:** 1 credit, 2 semesters

### AP Statistics

AP Statistics is a college level course intended for students who have a thorough knowledge of college preparatory mathematics. This course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This class will be beneficial to students who are interested in pursuing studies/careers in a variety of areas, including the Social Sciences, medical fields, business, and economics. **Note:** Students who take an AP class are expected to take the AP exam.

**Prerequisite:** Honors Precalculus or Statistics

**Credit:** 1 credit, 2 semesters

### Math Lab

Math Lab is designed to support and reinforce the concepts and skills required in Algebra 1, Geometry, and/or Algebra 2. Students who are identified by a current or previous teacher as needing support to meet proficiency standards may be required to enroll.

**Prerequisite:** Placement through proficiency assessment and teacher recommendation

**Credit:** .5 elective credit, 1 semester, Pass/Fail

**Course may be repeated for credit.**
Science

Three credits of science courses are required for CFSD graduation: Biology, Chemistry, and a third year of either Physics, Honors Physics, Field Science, Astronomy or Environmental Science. Interested students may take elective courses beyond the required science courses.

As is true for all subjects, students are encouraged to visit the websites of colleges of interest to review their recommended or required high school coursework. (Note: Some engineering/technical programs require a year of physics or Honors physics at the high school level).

SCIENCE PATHWAY

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<tr>
<th>Biology or BIOTECH FOUNDATIONS or HONORS BIOLOGY</th>
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SCIENCE ELECTIVES

(See course descriptions for prerequisites)

Intro to Engineering Design *Physics or *Honors Physics AP Biology
Principles of Engineering *Astronomy AP Chemistry
Digital Electronics *Environmental Science AP Physics
Engineering Design & Development *Field Science AP Environmental Science
Anatomy & Physiology H Adv Field Science

*Any of the five third-year science options may be taken as Elective courses if not already used to fulfill the third year science requirement. However, students may not take both Physics and Honors Physics.

Biology #4000

Biology is an inquiry-based laboratory course that incorporates aspects of inquiry, cooperative learning and independent research. A diverse range of topics will be covered including cellular biology, genetics, evolution and ecology. Students will be engaged in activities that promote analytical thinking including systems thinking, scientific inquiry, and development of higher level cognitive skills while working to improve their organization and communication skills (oral and written). The course will make use of sophisticated laboratory equipment, technological resources, and media equipment to enhance the inquiry process. The course will emphasize the development of organization, communication, and study skills, but does require some independence and self-directed learning.

Grade: 9 -10
Prerequisite: None
Credit: 1 credit, 2 semesters

Biology: Biotechnology Foundations (Bioscience) #4005

Biology: Biotechnology Foundations is an inquiry-based laboratory course that incorporates the technology and principles that are used in the biotechnology industry. Students will use modern molecular laboratory techniques such as DNA extraction, DNA amplification and visualization of DNA on electrophoresis gels to investigate authentic research questions. A diverse range of topics such as cellular biology, genetics, evolution, and ecology are included in the course. Students will be engaged in activities that promote analytical thinking, systems thinking, scientific inquiry, and the development of higher-level cognitive skills. The course will make use of sophisticated laboratory equipment, technological resources, and media equipment to enhance the inquiry process.

Grade: 9-10
Prerequisite: None
Recommendations: For students who comprehend scientific concepts with little difficulty and demonstrate some independence and self-direction in their learning. For students who are interested in acquiring skills needed to pursue higher education or to enter workforce in careers related to biomedical and biotechnology fields.
Credit: 1 credit, 2 semesters

Honors Biology #4010

Honors Biology is a rigorous inquiry-based laboratory course that incorporates aspects of inquiry, cooperative learning and independent research and study. Students in Honors Biology will focus on the same primary topics as Biology but with greater depth and breadth and with a greater expectation of skill and competency. Students will be engaged in activities that incorporate and require analytical thinking, including systems thinking and data analysis, scientific inquiry, integration and use of higher-level cognitive skills, organization, and advanced oral and written communication skills. Students will participate in independent and collaborative investigations using sophisticated laboratory equipment, library and technological resources, and media equipment. The course requires a high level of independence and strong application of self-directed learning strategies.

Grade: 9 -10
Prerequisite: OG/EC students: Teacher recommendation based on 3.0 rubric grade; New-to-CFSD: an A average (no more than one quarter B) in 8th grade Science
Recommendations: For students with strong oral and written communication skills; strong study, note-taking and reading skills; excellent work ethic and organizational skills; a high level of independence.
Credit: 1 credit, 2 semesters

Chemistry #4110

Chemistry is inquiry-based laboratory course that emphasizes essential concepts with real world applications. Students will explore topics such as structure of matter, molar relationships, gas laws, chemical reactions, qualitative analysis, acid/base reactions, and periodicity. Laboratory experiments are enhanced by 21st century skills, such as scientific inquiry, data analysis, and critical thinking. A combination of guided instruction and collaborative learning will enrich the learning experience of students with varied learning styles.

Grade: 10-11
Prerequisite: Biology, Algebra 1
Credit: 1 credit, 2 semesters

Honors Chemistry #4130

Honors Chemistry is an accelerated, inquiry-based laboratory course involving a detailed, in-depth study of introductory chemistry concepts including, but not limited to, a detailed study of the structure of matter, kinetic theory of gases, acid/base equilibria, stoichiometry, organic chemistry, thermodynamics, and quantum mechanics. Course emphasis is on investigation and problem solving techniques utilizing a mathematical approach. A self-directed, lab-based research project will be required second semester.

Grade: 10-11
Prerequisite: “B” or better in H Biology (or an “A” in Biology), an “A” in Algebra 1, and teacher recommendation
Credit: 1 credit, 2 semesters
**Physics**  
#4230  
Physics is an inquiry-based laboratory course that examines the workings of the physical world. Students will examine the workings of the physical world through the study of mechanics, wave phenomena, energy and matter interactions, electricity, and magnetism. Lab experiments will address the 21st century skills of scientific inquiry, and data analysis. Modern technology will be used where applicable. Mathematics is used in this course and students should understand basic algebra and graphing. Standard physics is more conceptual and requires less intensive mathematical analysis than Honors Physics.  
Grades: 11-12  
Prerequisite: Chemistry  
Prerequisite: Algebra 2 or concurrent enrollment  
Credit: 1 credit, 2 semesters

**Honors Physics**  
#4233  
Honors Physics is a rigorous inquiry-based laboratory course that is designed for students interested in a career in science, engineering, or a health-related field. Students will examine the workings of the physical world through the study of mechanics, wave phenomena, electricity and magnetism, optics and relativity. Mathematics is used extensively in this course and students who have already completed trigonometry will be more prepared than those co-enrolled as the mathematics is trig-based. Lab experiments will address the 21st century skills of scientific inquiry and data analysis. Modern technology will be used where applicable. Honors Physics is a mathematically intense course preparing students for AP and college Physics.  
Grades: 11-12  
Prerequisites: “B” in H Chemistry (or “A” in Chemistry), and teacher recommendation  
Prerequisite Math: H Algebra 2 (or “A” in Algebra 2)  
Credit: 1 credit, 2 semesters

**Astronomy**  
#4490  
Astronomy is an inquiry and physics-based laboratory course that focuses on the properties and dynamics of the universe. Concepts of motion, forces of nature, energy, optics, radiation, and thermodynamics are applied to concepts in astronomy. First semester introduces students to the history and methods of observational astronomy and the study of the solar system. Second semester includes the study of the life cycle of stars, astrophysics, and cosmology. Students will make extensive use of internet sources and tools as well as in-class technology to learn how astronomers make and analyze their observations. A strong background in algebra and geometry is important, as mathematics will be a key tool to learning about physics through astronomy.  
Grades: 11-12  
Prerequisites: Chemistry  
Credit: 1 credit, 2 semesters

**Environmental Science (Agriscience)**  
#4450  
Environmental Science is an inquiry, laboratory, and career-based course that studies local and global environments through the physics topics of mechanics, wave phenomena, energy and matter interactions, electricity, and magnetism. Other topics include physical geology, inter-relationship of plants and animals, scientific field sampling methods and equipment, and computer modeling of natural resource systems. The 21st Century skills of scientific inquiry, systems thinking, and technological innovations are integrated throughout the course. In depth investigations of natural resource systems and career opportunities are supported through real world authentic experiences. Students will be required to complete an independent, semester-long research project.  
Grades: 11-12  
Prerequisites: Chemistry  
Credit: 1 credit, 2 semesters

* This is a JTED class

**Field Science**  
#4460  
Field Science is an inquiry-based, outdoor, and laboratory based course that studies local environments through the physics topics of mechanics, wave phenomena, energy and matter interactions, electricity, and magnetism. Other topics include physical geology, identification of local plants and animals, scientific field sampling methods and equipment, and computer modeling of ecosystems. The skills of data analysis, scientific inquiry, and systems thinking are integrated throughout the course. Field trips to investigate local ecosystems are offered as an optional component of this course.  
Grades: 11-12  
Prerequisite: Chemistry  
Credit: 1 credit, 2 semesters
Science Electives

NOTE: Students may take Physics, Honors Physics, Field Science, Environmental Science, or Astronomy as an elective after they have already completed one of these courses as their third year science requirement for CFSD graduation. Additional science electives described below.

Anatomy & Physiology (Sports Medicine) #4541
Anatomy & Physiology is designed to introduce students to the basics of sports medicine and rehabilitation therapies. It is a hands-on inquiry-based laboratory course that helps students discover the wondrous of the human body. The structures and functions of the major body systems will be explored from a subcellular level to a multi-cellular organism level. Students will gain extensive knowledge of the human body through lecture, research and reading, and laboratory investigations, including two major dissections. They will learn the basics of anatomy and physiology, CPR, first aid, types and prevention of sports-related injuries, and rehabilitation. Students will also explore medical and allied health care careers. This course is a good introduction for students who are interested in a career in sports medicine athletic training, health and wellness, and physical therapy, and applies to any student interested in discovering the inner workings of the human organism.

Grades: 10-12
Prerequisites: Biology and Chemistry (or concurrent enrollment in a chemistry course)
Credit: 1 credit, 2 semesters
* This is a JTED class

Honors Advanced Field Science #4543
Honors Advanced Field Science is a research-centered course for seniors who have demonstrated high achievement in Field Science. Major topics include how biological and physical systems interact to produce the biogeographical and geological phenomena we see in the natural world today, statistical field research, and community service. The 21st century skills of data analysis, teamwork, leadership, digital learning, and systems thinking are important components of the course. Fluency with physical processes, the taxonomy and behavior of local flora and fauna at the family and species levels, as well as expertise with field research techniques are critical skills in this course. Overnight trips to demonstrate competency in field knowledge and methods are offered as an optional component of this course.

Grade: 12
Prerequisites: Minimum “B+” average in Field Science and teacher approval
Credit: 1 credit, 2 semesters

AP Biology #4544
Advanced Placement Biology is the equivalent of an introductory college biology course usually taken by biology majors during their first year in college. AP Biology helps students develop a conceptual framework for the biological sciences based on four themes and gain an appreciation of science as a process. A wide range of topics will be covered including biochemistry and structure of cells, molecular basis of heredity, evolution of life, anatomy and physiology, and ecology. There are twelve mandatory laboratory experiences. Students will use college-level textbooks and references, as well as be expected to dedicate approximately 3 to 5 hours a week and the effort required of a college course. AP Biology is designed to prepare students to take the Advanced Placement Biology exam. Note: Students who take an AP class are expected to take the AP exam.

Grades: 11-12
Prerequisites: “B” in H Biology (or “A” in Biology), and “B” in H Chemistry (or “A” in Chemistry)
Recommendation: Anatomy & Physiology as prior or concurrent course
Credit: 1 credit, 2 semesters
* This is a JTED class

AP Chemistry #4545
Advanced Placement Chemistry is a college level laboratory course involving a detailed study of typical general chemistry topics. A strong math background is highly recommended and students should be prepared to do extensive independent study to support class lectures and lab investigations. AP Chem is a fast-paced course designed to prepare students to take the Advanced Placement Chemistry exam. Note: Students who take an AP class are expected to take the AP exam.

Grades: 11-12
Prerequisites: “B” in Honors Chemistry (or “A” in Chemistry) and teacher recommendation
Credit: 1 credit, 2 semesters

AP Environmental Science (Agriscience) #4546
Advanced Placement Environmental Science is designed to be the equivalent of a one-semester introductory college course in environmental science. The course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students will identify and analyze environmental problems both natural and human-made, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving and/or preventing them. Students will be required to complete an independent, semester-long research project. This course prepares students to undertake more advanced study of topics in environmental science and prepares them for the Advanced Placement Environmental Science exam. Note: Students who take an AP class are expected to take the AP exam.

Grades: 11-12
Prerequisites: “B” in H Biology (or “A” in Biology) and “B” in H Chemistry (or “A” in Chemistry), and teacher recommendation
Credit: 1 credit, 2 semesters
* This is a JTED class

AP Physics C #4547
Advanced Placement Physics is a rigorous calculus-based course on mechanics, and electricity and magnetism. It is the equivalent of two semesters of a college physics course taken by engineering or science majors. Emphasis is placed on solving a variety of challenging problems and analyses in the classroom and laboratory. AP Physics prepares students to take the two Advanced Placement Physics C Exams: Mechanics, and Electricity & Magnetism. Note: Students who take an AP class are expected to take the AP exam.

Grades: 12
Prerequisites: “B” in H Physics (or “A” in Physics) and teacher recommendation
Math Prerequisite: Concurrent enrollment in AP Calculus AB or AP Calculus BC
Credit: 1 credit, 2 semesters
**Engineering Courses**

**Introduction to Engineering Design**  #4602

Engineering Design introduces aspects of problem solving, logic and relationships. This course emphasizes problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software. Topics explored include various technology systems, manufacturing processes, and how technological advances affect society. Students are introduced to the scope, rigor, and discipline of engineering and encouraged to integrate math and science technologies into engineering problem solving processes. (Credit through Pima Community College is available – see instructor).

Grades: 9-12
Prerequisite: None
Credit: 1 credit, 2 semesters
* This is a JTED class

**Digital Electronics**  #4603

Digital Electronics examines the logic applied to electronic circuits and devices in conjunction with biotechnical engineering problems. Testing and designing digital circuity with computer simulation software will introduce students to how circuits and devices are constructed. Relevant projects in the area of engineering enable students to experience the logic, rigor, and discipline of integrating math and science skills into engineering problems. Activities are designed to help students synthesize and construct knowledge as applied to solve and resolve problems within the scope of engineering.

Grades: 10-12
Prerequisite: Introduction to Engineering Design
Credit: 1 credit, 2 semesters
* This is a JTED class

**Principles of Engineering**  #4604

Principles of Engineering is a course designed to integrate math and science skills into engineering/engineering technology. Students will gain an understanding of the intricacies associated with technology systems and engineering problem solving. Students will learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people and solve real world problems. Students will engage in hands-on, real-world projects, to gain an appreciation for social and political consequences of technological change. This course emphasizes the relevancy of math and science skills.

Grades: 10-12
Prerequisite: Introduction to Engineering Design
Credit: 1 credit, 2 semesters
* This is a JTED class

**Engineering Design and Development / UA Engineering 102**

Engineering Design and Development is a research course that offers an opportunity for advanced students to research, design, and construct solutions to open-ended engineering problems. Students will work in research teams to collect and analyze data relevant to their project. In an effort to develop additional workplace skills, community mentors will be provided for each team to guide their problem-solving process. Progress reports, data analysis, and a final written report will be presented. This course is designed for the advanced student planning a career in engineering. (Interested/Eligible students may earn credit for UA Engineering 102*. See instructor for information.)

Grade: 12
Prerequisite: Digital Electronics and Principles of Engineering, or teacher approval
Co-requisite for UA Engineering 102: Precalculus or AP Calculus AB or BC
Credit: 1 credit, 2 semesters
* This is a JTED class
Social Studies

Four years (4 credits) required for CFSD graduation: Global Issues, Western Civilization or AP European History, US History, and .5 Government and .5 Economics (Standard/HC and AP options).

Honors Credit

Social Studies courses at all levels award Honors distinction/credit (additional .25 GPA weight) for students in standard/non-Honors classes who consistently perform at the Honors level in their coursework and assessments.

Global Issues #3200

This course is an introduction to the basic concepts, vocabulary, and research skills necessary for success in the social sciences. The course will prepare students for subsequent social studies courses in Western Civilization, U.S. History, and Civics/Government for the 21st Century. Global Issues and Perspectives will examine the history, culture, and geography of four non-European areas of the world: Africa, Asia, Middle East, and Latin America. Following an initial introductory block, which introduces the students to basic vocabulary and concepts, each of the areas above will be addressed in a separate unit of study. Research skills and utilization of a broad array of primary and secondary sources will be emphasized throughout the year. All students will demonstrate competency in research skills by producing a research paper that demonstrates in-depth research and appropriate documentation. Students who consistently perform at the Honors level in their coursework and assessments may be awarded Honors credit/distinction for this class.

Grade: 9
Prerequisite: None
Credit: 1 credit, 2 semesters

Humanities 9: Global Studies (Social Studies) #3111

Humanities is an interdisciplinary English and Social Studies class. The Humanities 9 curriculum encompasses all of the standards and benchmarks of both the English 9 and Global Issues 9 courses; however, the course is structured so that the content is integrated. Students will examine the history, culture, and geography of four non-European areas of the world: Africa, Asia, Middle East, and Latin America. They will study these regions through a wide variety of genres as well as primary and secondary sources. The course emphasizes analytical reading and writing of narrative and expository text, research skills, and critical thinking skills, as well as factual knowledge of geography and history, vocabulary, and the conventions of written English. Students who consistently perform at the Honors level in their coursework and assessments may be awarded Honors credit/distinction for this class, and all students will be prepared for any sophomore level English or Social Studies course.

Grade: 9
Prerequisite: None
Co-requisite Humanities 9: Global Studies (English)
Credit: 2 credits, 2 semesters (English and Social Studies)

Western Civilization #3220

This course provides a survey of the West from antiquity to the present world. Students will analyze the major economic, social, religious, intellectual, scientific, and artistic movements over time and their impact on the world today. A variety of instructional methods will be used including lecture, discussion, independent research, web-based learning, and working in teams. Students will focus on critical and abstract thinking skills, reading primary and secondary documents, performing independent research, and writing historical essays. An important goal of this course is to prepare students for their roles as 21st century citizens in a rapidly changing world, in which a rich understanding of history and its impact on the present and future is integral to effective leadership and citizenship. Students who consistently perform at the Honors level in their coursework and assessments may be awarded Honors credit/distinction for this class.

Grade: 10
Prerequisite: Global Issues or Humanities 9
Credit: 1 credit, 2 semesters

Humanities 10: Western Studies (Social Studies) #3131

Humanities is an interdisciplinary English and Social Studies class. The Humanities 10 curriculum encompasses all of the standards and benchmarks of both the English 10 and Western Civilization courses; however, the course is structured so that the content is integrated. Students will examine the history, culture, and geography of Europe and its surroundings and the development of "Western thought." They will study these regions through a wide variety of genres: fiction, biography, philosophy, and poetry, as well as primary and secondary sources. The course emphasizes analytical reading and writing of expository and visual media (with a focus on persuasion), research skills, critical thinking skills, and presentation skills as well as factual knowledge of geography and history, vocabulary, and the conventions of written English. All students will demonstrate competency in research skills by producing a research paper that demonstrates in-depth research and appropriate documentation. Students who consistently perform at the Honors level in their coursework and assessments may be awarded Honors credit/distinction for this class, and all students will be prepared for any junior level English or Social Studies course.

Grade: 10
Prerequisite: Humanities 9 or Global Issues
Co-requisite Humanities 10: Western Studies (English)
Credit: 2 credits, 2 semesters (English and Social Studies)

AP European History #3224

AP European History is a college level course that offers a broad overview of European history, introducing students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which we live. Students are provided with a basic narrative of events and movements in European history from approximately 1450-2000 in order to develop an understanding of some of its principal themes. It also seeks to provide students with an ability to analyze historical evidence and historical interpretation, and an ability to express historical understanding in writing. This college level survey course is aligned with the College Board’s standards for the course. It is largely taught in lecture format and prepares students to take the Advanced Placement European History exam. Note: Students who take an AP class are expected to take the AP exam.

Grade: 10-12
Prerequisite: Global Issues
Credit: 1 credit, 2 semesters

US History #3240

This course presents a general survey of the history of the United States from the colonial era to the present day. Students will learn how to think and write thematically about social, historical, political, and economic issues and trends that have shaped the United States. An emphasis of the course will be
emergence of representative democracy, the evolving patterns of race relations and their effect on the nation, American territorial expansion, growth of American popular culture, immigration, industrialization, urbanization, and the emergence of the United States as a superpower in the postwar world. Students will utilize a variety of primary and secondary sources and will reinforce their writing, research, and critical thinking skills through independent research, writing simulations, and classroom discussion. Students who consistently perform at the Honors level in their coursework and assessments may be awarded Honors credit/distinction for this class.

Grade: 11
Prerequisite: Western Civilization or AP European History
Credit: 1 credit, 2 semesters

Humanities 11: American Studies (Social Studies) #3151

Humanities is an interdisciplinary English and Social Studies class. The Humanities 11 curriculum encompasses all of the standards and benchmarks of both the English 11 and American History 11 courses; however, the course is structured so that the content is integrated. Students will examine the history, culture, and geography of the United States of America, from the colonial era to the present. They will study the development of our country through a wide variety of genres: fiction, biography, popular culture, and poetry, as well as primary and secondary sources. The course emphasizes analytical reading and writing of narrative and expository text, literary analysis, critical thinking skills, and oratory, as well as factual knowledge of geography and history, vocabulary, and the conventions of written English. In preparation for senior year and beyond, students in this class will also develop the skills to create effective job or college applications. Students who consistently perform at the Honors level in their coursework and assessments may be awarded Honors credit/distinction for this class, and all students will be prepared for any senior level English or Social Studies course.

Grade: 11
Prerequisite: Humanities 9 or Western Civ or AP European History
Co-requisite Humanities 11: American Studies (English)
Credit: 2 credits, 2 semesters

AP United States History #3356
AP United States History is a college-level course that surveys the history of the United States from the colonial period to the present. The course is designed to provide students with the analytical skills and knowledge necessary to deal critically with the problems and issues in American History. It strikes a balance between learning factual knowledge and increasing critical thinking skills of analysis, interpretation, synthesis, and evaluation. Improving writing skills, especially in the area of developing a thesis, supporting it with specific, relevant, factual content, and formulating a conclusion, is a major objective of the course. The course is aligned with the College Board’s standards and prepares students to take the Advanced Placement US History exam. Note: Students who take an AP class are expected to take the AP exam.

Grade: 11
Prerequisite: Western Civilization or AP European History
Credit: 1 credit, 2 semesters

United States Government #3360
United States Government is a one-semester course that focuses on the fundamental concepts and practices of the American and Arizona systems of government. Course content will include an examination of the political process, political ideologies, the Constitution and Bill of Rights, the three branches of government, as well as the rights and responsibilities of individuals in our government system. Students will also explore current issues at the local, state, national, and global levels and will primarily apply their understanding of concepts through projects, activities, simulations, and research. Students who consistently perform at the Honors level in their coursework and assessments may be awarded Honors credit/distinction for this class.

Grade: 12
Prerequisite: US History
Credit: .5 credit, 1 semester

AP United States Government #3363
Advanced Placement US Government is a one-semester college-level course of study in American political science. Course content includes a survey of constitutional development, political beliefs and behaviors, demographics, parties and interest groups, institutions of national government, public policy, and civil rights and liberties. The course is aligned with the College Board’s standards and prepares students to take the Advanced Placement US Government exam. Note: Students who take an AP class are expected to take the AP exam.

Grade: 12
Prerequisite: US History
Credit: .5 credit, 1 semester

Economics #3400
Economics is a one-semester course that focuses on a greater understanding of economics ranging from the viewpoint of the individual consumer or small business owner (Microeconomics) to the national and global economy (Macroeconomics). The course will study the law of supply and demand, forms of business, labor unions, government finances and influence on the economy, money and prices, inflation and deflation cycles, as well as personal finance. The course also relates history, government, and politics to the study of economics. *Students who consistently perform at the Honors level in their coursework and assessments may be awarded Honors credit/distinction for this class.

Grade: 12
Prerequisite: US History
Credit: .5 credit, 1 semester

AP Macroeconomics #3402
Advanced Placement Macroeconomics is a one-semester college-level course that focuses on economic principles and their application to the economic systems as a whole. Course content includes an introduction to basic economic principles followed by an in-depth look at major macroeconomic goals and performance indicators, the financial sector, monetary and fiscal policy, and foreign exchange markets. The course requires students to demonstrate their understanding of economic principles in written work, but also graphically. The course is aligned with the College Board’s standards and prepares students to take the Advanced Placement Macroeconomics exam. Note: Students who take an AP class are expected to take the AP exam.

Grade: 12
Prerequisite: US History
Credit: .5 credit, 1 semester

AP United States Government #3363
"Note: Students who take an AP class are expected to take the AP exam."
Social Studies Electives

AP European History #3224
AP European History is a college level course that offers a broad overview of European history, introducing students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which we live. Students are provided with a basic narrative of events and movements in European history from approximately 1450-2000 in order to develop an understanding of some its principal themes. It also seeks to provide students with an ability to analyze historical evidence and historical interpretation, and an ability to express historical understanding in writing. This college level survey class is aligned with the College Board’s standards for the course. It is largely taught in lecture format and prepares students to take the Advanced Placement European History exam. Note: Sophomores may elect to take AP European History for their 10th grade Social Studies class (in lieu of Western Civilization). Note: Students who take an AP class are expected to take the AP exam.
Grade: 10-12
Prerequisite: Global Issues
Credit: 1 credit, 2 semesters

AP World History #3500
AP World History is a college level course that offers motivated students the opportunity to immerse themselves in the processes that, over time, have resulted in the knitting of the world into a tightly integrated whole. The course invites students to explore key themes of interaction with the environment, cultures, state building, economic systems, and social structures, from approximately 8,000 BCE to present-day. The course offers balanced global coverage of Africa, the Americas, Asia and Europe. It seeks to provide students with an ability to analyze historical evidence and historical interpretation, and an ability to express historical understanding in writing. This college level survey class is aligned with the College Board’s standards for the course and prepares students to take the Advanced Placement World History exam. Note: Students who take an AP class are expected to take the AP exam.
Grade: 11-12
Prerequisite: Global Issues, and Western Civilization or AP European History
Credit: 1 credit, 2 semesters

AP Seminar #3502
AP Seminar is a foundational course that engages students in curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listen to and view speeches, broadcasts, and personal accounts; and experience artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. Note: Students are assessed with two through-course performance assessment tasks and one end-of-course exam. All three assessments are summative and will be used to calculate a final AP score (using the 1-5 scale).
Grade: 11-12
Prerequisite: H English 10 (or “A” in English 10) and AP Euro (or “A” in Western Civ)
Credit: 1 credit, 2 semesters

AP Research #3503
AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a yearlong mentored, research-based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methods; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. The course culminates in an academic thesis paper of approximately 5,000 words and a presentation, performance, or exhibition with an oral defense.
Grade: 12
Prerequisite: AP Seminar
Credit: 1 credit, 2 semesters

Student Leadership #7151 SC, #7152 LC, #7153 DC
Student Leadership is a course designed to give students the opportunity to study, practice, and develop individual and group leadership and organization skills. These skills include, but are not limited to, leadership roles, interpersonal relations, civic responsibility, decision-making, problem solving, and communication. Students enrolled in this course apply these skills by working with peers, school administration, and the community. This course is a hands-on approach to leadership by involving students in participatory leadership through project planning and implementation. All Student Council officers and elected class presidents and representatives serving in leadership roles are required to take this course.
Grades: 9-12
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.

World Languages Elective

Summer Immersion Experience Abroad – Chinese #5551
This study-abroad experience in China offers students a unique opportunity to deepen their understanding of Chinese culture while also developing their ability to communicate in the Chinese language. Students will be placed in Chinese language classes at the novice, intermediate, and advanced levels based on individual need. Students will also take part in a variety of cultural excursions to modern and ancient sites, and will take classes (conducted in English) on topics such as Chinese culture, history, politics, and economics. This study abroad experience is chaperoned by a CFSD staff member.
Grades: 10-12
Fee: To be determined
Credit: .5 elective credit (Credit cannot be used to fulfill the graduation requirement for World Languages.)
World Languages

Two years (2 credits) in the same language is required for CFSD graduation. CFHS students may take either
Spanish or Chinese.

Spanish

Spanish 1 #5320
This introductory language course is for students who have no previous Spanish or who have not yet acquired the proficiencies addressed in CFHS Spanish 1. Although all areas of communication (speaking, listening, basic reading and writing) will be addressed, our approach emphasizes the spoken language. In this course students will begin to develop the skills and cultural competence necessary to communicate with native speakers.
Prerequisite: None
Targeted Proficiency Outcome: Novice High
Grades 9-12
Credit: 1 credit, 2 semesters

Spanish 2 #5322
This course is for students who have acquired Novice-High proficiency. Students will further develop the communication skills and cultural competence acquired in Spanish 1. Students will continue to use Spanish in all areas of communication (speaking, listening, reading and writing) with emphasis on the spoken language.
Prerequisite Target: Novice High
Targeted Proficiency Outcome: Intermediate Low
Grades 9-12
Credit: 1 credit, 2 semesters

Spanish 3 #5328
This course is for students who have acquired Intermediate-Low proficiency. Students will enhance the communication skills and cultural competence developed in Spanish 1 and 2. Students will examine and utilize more advanced features of language and will begin to develop greater fluency in all areas of communication (speaking, listening, reading and writing).
Prerequisite Target: Intermediate Low
Targeted Proficiency Outcome: Intermediate Mid
Grades 9-12
Credit: 1 credit, 2 semesters

Spanish 4 #5330
This course is for students who have acquired Intermediate-Low/Mid proficiency. Students will acquire more sophisticated communication skills and will develop a deeper understanding of Spanish-speaking cultures through advanced reading and topics for discussion and composition.
Prerequisite Target: Intermediate Mid
Targeted Proficiency Outcome: Intermediate High
Grades 9-12
Credit: 1 credit, 2 semesters

Spanish for Heritage Learners (SHL) #5340
Designed for Heritage Language Learners of Spanish, this course can accommodate a wide range of Heritage Language Learners, from those who are minimally functional (can comprehend Spanish but are not able to speak fluently, read or write) to those who are more proficient and literate in Spanish. The recommended entrance requirement for the beginning level is at the Intermediate-Mid level of proficiency in listening comprehension however it is not necessary that students speak at the Intermediate level prior to entering the course. This course will develop reading, writing, speaking, and listening skills. The student will also develop an awareness and understanding of Hispanic culture, such as language variations, customs,
geography, and current events.
Prerequisite Target: Intermediate Mid for listening and Heritage Learner Background and teacher recommendation
Targeted Proficiency Outcome: Intermediate High to Advanced Low Grades 9-12
Credit: 1 credit, 2 semesters

Advanced Spanish for Heritage Learners (ASHL) #5350
This course will accommodate Advanced Heritage Learners as they continue to develop their reading, writing, speaking, and listening skills in Spanish. Students in the course will also gain a deeper understanding of Hispanic culture through investigations of language variation, customs, geography, history, literature, and current events.
Prerequisite Target: Intermediate High in reading and writing and Heritage Learner Background and teacher recommendation
Targeted Proficiency Outcome: Advanced Low to Advanced High Grades 10-12
Credit: 1 credit, 2 semesters

Honors Hispanic Culture Through Film #5360
This course uses film to enhance students’ understanding of Hispanic culture while also serving as a springboard for improving students’ speaking, listening, and writing skills. Oral proficiency and listening comprehension are refined through conversation, discussion, and presentations. Writing skills are enhanced through journal topics related to the films viewed and discussed in class. Students will analyze and discuss selected films and segments of films from Latin America, Spain, and the United States on subjects concerning life and culture in the Hispanic world. Students will explore these films in light of their political, cultural, and social contexts. This course will be taught primarily in Spanish. Students’ oral presentations will be given in Spanish, but papers may be submitted in either English or Spanish.
Prerequisite Target: Intermediate High and successful completion of Spanish 4 or Advanced Spanish for Heritage Learners and teacher recommendation
Targeted Proficiency Outcome: Intermediate High to Advanced Low Grades 11-12 (or 10 with teacher recommendation)
Credit: 1 credit, 2 semesters

AP Spanish Language and Culture #5436
This course will prepare students to demonstrate competence on the Advanced Placement Spanish Language and Culture exam. AP Spanish requires a sophisticated command of Spanish grammar and vocabulary and competence in listening, reading, speaking, and writing. The course examines geographic, historical, artistic, social, and political features of communities in the Spanish-speaking world through six themes: Global Challenges, Science & Technology, Families & Communities, Contemporary Life, Beauty & Aesthetics, and Personal & Public Identities. Note: Students who take an AP class are expected to take the AP exam.
Prerequisite Target: Intermediate High and successful completion of Spanish 4 or Advanced Spanish for Heritage Learners and teacher recommendation
Targeted Proficiency Outcome: Intermediate High to Advanced Low Grades 11-12 (or 10 with teacher recommendation)
Credit: 1 credit, 2 semesters

AP Spanish Literature and Culture #5437
Advanced Placement Spanish Literature is the equivalent of a university course and requires a sophisticated command of Spanish grammar and vocabulary and competence in listening, reading, speaking, and writing. AP Spanish Literature and

Culture focuses on selected authors from the literature of Spain and Latin America and on the understanding and analysis of literary texts. The course will prepare students to demonstrate competence on the Advanced Placement Spanish Language and Culture Exam and/or the AP Spanish Language and Culture Exam. Note: Students who take an AP class are expected to take the AP exam.
Prerequisite Target: Advanced Low for reading; Intermediate Mid for writing and teacher recommendation; Intermediate High to Advanced Low for speaking
Targeted Proficiency Outcome: Advanced Mid for reading; Intermediate High for writing; Advanced Low/Mid for speaking Grades 11-12 (or 10 with teacher recommendation)
Credit: 1 credit, 2 semesters

Summer Immersion Experience Abroad - Spanish #5450
This study-abroad experience is for students who have attained Intermediate-Low proficiency or higher in Spanish. This program offers the student an authentic "life experience" to live abroad with a host family and attend a language school during the day. Through our host family program, students are given the opportunity to be totally immersed in the culture as well as the language. Students will participate in weekend excursions to study the geography, ecosystems, and culture of Costa Rica. This study abroad experience is chaperoned by a CFSD staff member.
Prerequisite Target: Intermediate Low and teacher recommendation
Targeted Proficiency Outcome: Intermediate Mid to Advanced Low Grades 10-12
Fee: To be determined
Credit: 1 credit
Chinese

Chinese 1  #5510
This introductory Mandarin language course is for students who have no previous experience with the language. Students will learn the pinyin transcription system for Chinese pronunciation and will also be able to recognize and produce 220 Chinese characters by the end of the course. Although there is an emphasis on oral communication, students will also develop basic listening, reading, and writing skills in the language. In this course, students will begin to develop the skills and cultural competence necessary to communicate with native speakers.
Prerequisite: None
Targeted Proficiency Outcome: Novice Mid for speaking; Novice High for listening; Novice Low for reading and writing
Grades 9-12
Credit: 1 credit, 2 semesters

Chinese 2  #5520
This course is for students who have acquired Novice-High proficiency. Students will continue to learn the pinyin transcription system of Chinese pronunciation and expand the number of Chinese characters they can recognize and produce. Students will further develop the communication skills and cultural competence acquired in Chinese 1. Students will continue to use Chinese in all areas of communication (speaking, listening, reading and writing) with emphasis on the spoken language.
Prerequisite Target: Novice Mid for speaking; Novice High for listening; Novice Low for reading and writing
Targeted Proficiency Outcome: Novice High for speaking, Intermediate Low for reading; Novice Mid for reading and writing
Grades 9-12
Credit: 1 credit, 2 semesters

Chinese 3  #5530
This course is for students who have acquired Intermediate-Low/Mid proficiency. Students will enhance the communication skills and cultural competence developed in Chinese 1 and 2. Students will examine and utilize more advanced features of language and will begin to develop greater fluency in all areas of communication (speaking, listening, reading, and writing).
Prerequisite Target: Novice High for speaking, Intermediate Low for listening; Novice Mid for reading and writing
Targeted Proficiency Outcome: Intermediate Low for speaking, Intermediate Mid for listening, Novice High for reading and writing
Grades 9-12
Credit: 1 credit, 2 semesters

Chinese 4  #5540
This course is for students who have acquired Intermediate-Mid proficiency. Students will enhance the communication skills and cultural competence developed in Chinese 1, 2, and 3. Students will examine and utilize more advanced features of language and will begin to develop greater fluency in all areas of communication (speaking, listening, reading, and writing).
Prerequisite Target: Intermediate Low for speaking; Intermediate Mid for listening; Novice High for reading and writing
Targeted Proficiency Outcome: Intermediate Mid for speaking; Intermediate High for listening; Intermediate Low for reading and writing
Grades: 9-12
Credit: 1 credit, 2 semesters

AP Chinese Language and Culture  #5550
Advanced Placement Chinese Language and Culture will prepare students to demonstrate competence on the Advanced Placement Chinese Language and Culture exam. AP Chinese requires a strong command of Chinese grammar and vocabulary and competence in listening, reading, speaking, and writing. The course will reflect the intellectual interests of the students such as arts, current events, and literature while following the prescribed Advanced Placement curriculum. Note: Students who take an AP class are expected to take the AP exam.
Prerequisite Target: Intermediate Mid for speaking; Intermediate High for listening; Intermediate Low for reading and writing
Targeted Proficiency Outcome: Intermediate High for reading; Advanced Low for listening; Intermediate Mid for reading and writing
Grades: 11-12 (or 10 with teacher recommendation)
Credit: 1 credit, 2 semesters

Summer Immersion Experience Abroad – Chinese  #5551
This study-abroad experience in China offers students a unique opportunity to deepen their understanding of Chinese culture while also developing their ability to communicate in the Chinese language. Students will be placed in Chinese language classes at the novice, intermediate, and advanced levels based on individual need. Students will also take part in a variety of cultural excursions to modern and ancient sites, and will take classes (conducted in English) on topics such as Chinese culture, history, politics, and economics. This study abroad experience is chaperoned by a CFSD staff member.
Grades: 10-12
Prerequisite: Proficiency in Chinese is not a prerequisite for participation in this program.
Fee: To be determined
Credit: .5 elective credit (Credit cannot be used to fulfill the graduation requirement for World Languages.)
Performing Arts

Instrumental Music

Concert Band #6010
Concert Band is a large concert ensemble comprised of woodwind, brass, and percussion musicians that is open to students with one or two years of playing experience. Beginning students or students interested in learning a secondary instrument may enroll with instructor permission. Emphasis is placed upon the development of characteristic tone, music reading skills, and ensemble performance through the study of a wide variety of music literature. In addition to music performance skills students will have the opportunity to develop teamwork and collaboration skills through a variety of activities including pep band, concerts, festivals, regional auditions, state solo/ensemble festival, parades, and several travel opportunities. All students will participate as a member of the Foothills Falcon Marching Band in the fall.

Grades: 9–12
Prerequisite: None, though one to two years of playing experience recommended.
Fees: $25 co-curricular, $35 uniform, $55 travel, $95 if instrument rental ($50 if instrument rental one semester)
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.

Symphonic Band #6011
Symphonic Band is an advanced concert ensemble comprised of woodwind, brass and percussion musicians that is open to students by audition. Emphasis is placed upon the development of characteristic tone, music reading skills, and ensemble performance through the study of a wide variety of intermediate and advanced musical literature. In addition to music performance skills, students will have the opportunity to develop teamwork and collaboration skills through a variety of activities including pep band, concerts, festivals, regional auditions, state solo/ensemble festival, parades, and several travel opportunities.

Students who have successfully completed Concert Band during their sophomore year may advance to Symphonic band without audition. All students will participate as a member of the Foothills Falcon Marching Band in the fall.

Grades: 9–12
Prerequisite: Director consent. Auditions for all woodwind, brass, and percussion musicians will be held prior to course selection.
Fees: $25 co-curricular, $35 uniform, $55 travel, $95 if instrument rental ($50 if instrument rental one semester)
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.

Wind Ensemble #6020
Wind Ensemble is an advanced large concert ensemble composed of the most highly skilled woodwind, brass, and percussion musicians at Catalina Foothills High School. Emphasis is placed on the development of advanced individual and ensemble performance skills as well as an in-depth understanding of a variety of band literature. Students are expected to practice the attitude and self-discipline of a working musician. In addition to music performance skills, students will have the opportunity to develop teamwork and collaboration skills through a variety of activities including pep band, concerts, festivals, regional auditions, state solo/ensemble festival, parades, and several travel opportunities. All students will participate as a member of the Foothills Falcon Marching Band in the fall.

Grades: 9–12
Prerequisite: Director consent. Auditions for all woodwind, brass, and percussion musicians will be held prior to course selection.
Fees: $25 co-curricular, $35 uniform, $55 travel, $95 if instrument rental ($50 if instrument rental one semester)
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.

Small Ensembles #6021
Small ensembles class is composed of a variety of small ensembles such as woodwind and brass quintet, flute choir, clarinet choir, saxophone choir, and brass and percussion ensembles. Annual ensemble composition is determined by student interest. Students interested in solo performance may also enroll with teacher permission. Emphasis is placed on individual and small ensemble performance skills utilizing a wide variety of chamber music literature. Students auditioning for these ensembles should possess intermediate to advanced performance skills and be capable of rehearsing with other members of the ensemble independently of the director.

Students enrolled in this course should expect to perform in several solo/ensemble concerts as well as the state solo/ensemble festival. Public performances are also scheduled at various locations. Student enrolled in this class do not perform with the marching band unless they are also enrolled in one of the concert bands.

Grades: 9–12
Prerequisite: Director consent. Auditions for all woodwind, brass, and percussion musicians will be held prior to course selection.
Fees: $25 co-curricular
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.

Jazz Combo #6028
Jazz Combo class will be composed of several jazz combos ranging from beginning to advanced levels. Students may audition on any woodwind or brass instrument. Drum set, bass, guitar, and piano players may audition to be members of the rhythm sections for the combos. Emphasis will be on the development of improvisation skills based on the creative application of music theory knowledge. A wide variety of jazz literature and styles will be performed with a significant emphasis on listening to develop an accurate concept of characteristic styles. Students should be capable of rehearsing with other members of the ensemble independently of the director. Performances at public concerts, clinics, and festivals should be expected. Students enrolled in this class do not perform with the marching band unless they are also enrolled in one of the concert bands.

Grades: 9–12
Prerequisite: Director consent. Auditions for all woodwind, brass, and percussion musicians will be held prior to course selection.
Fees: $25 co-curricular, $55 travel, $95 if instrument rental ($50 if instrument rental one semester)
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.

**Jazz Band**  
#6029
Jazz Band is composed of intermediate to advanced jazz musicians. Emphasis is on jazz performance techniques, improvisation, and development of an understanding of jazz styles and history. A wide variety of jazz literature and styles will be performed with a significant emphasis on listening to develop an accurate concept of characteristic styles. Enrollment will be limited to standard jazz instrumentation and preference will be given to those saxophonists who can double on flute or clarinet. Students playing saxophone, trumpet, trombone, drum set, piano, guitar, bass, and piano may audition for this select group. Performances at public concerts, clinics, and festivals should be expected. Students enrolled in this class do not perform with the marching band unless they are also enrolled in one of the concert bands.

**Grades:** 9-12  
**Prerequisite:** Director consent. Auditions for all woodwind, brass, and percussion musicians will be held prior to course selection.

**Fees:** $25 co-curricular, $55 travel, $95 if instrument rental ($50 if instrument rental one semester)  
**Credit:** 1 credit, 2 semesters  
**Course may be repeated for elective credit.

**Drum Line/Percussion Techniques**  
#6032
Drumline is offered to all percussionists interested in performing as a member of the Foothills Falcon Marching Band. Emphasis is on the development of beginning to advanced rudimental percussion techniques for marching band, concert percussion techniques, and percussion ensemble performance skills. Students will perform field show music and drill, cadences, pep band music, concert band music, and percussion ensemble literature. Percussionists remain in the class for the full year unless they audition and are accepted for Wind Ensemble.

**Grades:** 9-12  
**Prerequisite:** Director consent. Workshops and auditions are held in January and February and as needed for new students.

**Fees:** $25 co-curricular, $35 uniform, $55 travel, $75 percussion  
**Credit:** 1 credit, 2 semesters  
**Course may be repeated for elective credit.

**Colorguard**  
#6041
Colorguard is offered to students interested in visual performance involving dance, movement, and flag equipment. This visual performance ensemble is a part of the Foothills Falcon Marching Band in the fall and is an independent winterguard ensemble in the winter and spring. Emphasis will be on the development of dance, movement, flag, and advanced equipment visual performance skills. Students will create and perform routines to visually represent a wide variety of music. Colorguard members will perform with the band at football games, festivals and parades, and they are eligible to travel with the band on all performance trips.

**Grades:** 9-12  
**Prerequisite:** Director consent. Workshops and placement auditions will be held prior to course selection and as needed for new students.

**Fee:** $25 co-curricular, $35 uniform, $55 travel  
**Credit:** 1 credit, 2 semesters  
**Course may be repeated for elective credit.

**Beginning Steel Drums** - Semester  
#6037
Beginning Steel Drums is open to all students interested in learning the technique of steel band playing. The course covers traditional Trinidadian aural learning, development of steel drum sound/proper tone quality, basic music reading, and the history of steel drums. Repertoire will include Caribbean and American Popular Music. Students will learn ensemble performance techniques through concert performances presented during the semester. In addition to musical performance skills, students will have the opportunity to develop teamwork and collaboration skills required of a musical group.

**Grades:** 9-12  
**Prerequisite:** None  
**Fees:** $25 co-curricular, $15 tuning fee  
**Credit:** .5 credit, 1 semester  
**Course may be repeated once for elective credit.

**Beginning Steel Drums** - Year  
#6038
Beginning Steel Drums is open to all students interested in learning steel band playing techniques. The course covers traditional Trinidadian aural learning, development of steel drum sound/proper tone quality, basic music reading, and the history of steel drums. Repertoire will include Caribbean and American Popular Music. Students will learn ensemble performance techniques through concert performances presented during the semester. In addition to musical performance skills students will have the opportunity to develop teamwork and collaboration skills required of a musical group.

**Grades:** 9-12  
**Prerequisite:** None  
**Fees:** $25 co-curricular, $25 tuning fee  
**Credit:** 1 credit, 2 semesters

**Intermediate Steel Drums**  
#6039
Intermediate Steel Drums is open to all students interested in learning or continuing to improve their understanding of music reading, listening, improvisation, music theory applications, and steel band playing techniques through the performance of Caribbean traditional and popular music, Classical, and other World music. In addition to musical performance skills students will have the opportunity to develop teamwork and collaboration skills required of a musical group. Students will learn ensemble performance techniques through Concert Performances presented during the semester. As skills develop, public performances will be scheduled.

**Grades:** 9-12  
**Prerequisite:** Director consent. One semester of Beginning Steel Drums.

**Fees:** $25 co-curricular, $25 tuning fee  
**Credit:** 1 credit, 2 semesters  
**Course may be repeated for elective credit.

**Advanced Steel Drums**  
#6040
Advanced Steel Drums is designed for students who have prior steel drum, percussion, or instrumental music experience. Students will learn advanced music ensemble concepts such as: sight reading music, memorization of music, improvisation, reading chord charts, and high level listening skills. Repertoire includes Caribbean, World, Classical, and American popular music. In addition to musical performance skills students will have the opportunity to develop teamwork and collaboration skills required of a musical group. Students will learn ensemble performance techniques for various venues through concert performances presented during the semester. Several performances will be scheduled on and off campus.

**Grades:** 10-12  
**Prerequisite:** Director consent. Two semesters of Steel Drums.

**Fees:** $25 co-curricular, $55 travel, $25 tuning fee  
**Credit:** 1 credit, 2 semesters  
**Course may be repeated for elective credit.
**Beginning Guitar**  #6043
Beginning Guitar introduces the student to the guitar and playing techniques. This course, designed for beginners, includes note reading, rhythms and basic guitar skills. Both individual and group studies are included. Public performance is a possibility. Classical acoustic guitars will be provided for class instruction, but it is recommended that students have access to a classical acoustic guitar for home practice.

**Grades:** 9-12  
**Prerequisite:** None.  
**Credit:** 1 credit, 2 semesters  
**Course may be repeated for elective credit.**  
**Fees:** $35 lab fee

**Intermediate Guitar**  #6044
Intermediate Guitar is a continuation of Beginning Guitar. An entrance audition is required if Beginning Guitar was not taken. Students will study more advanced chords, rhythms, note reading, and harmony techniques. Both individual and group studies are included. Public performance is a possibility. Placement is by teacher recommendation/audition. Classical acoustic guitars will be provided for class instruction, but it is recommended that students have access to a classical acoustic guitar for home practice.

**Grades:** 9-12  
**Prerequisite:** Beginning Guitar or Director consent. Auditions will be held prior to course selection.  
**Credit:** 1 credit, 2 semesters  
**Course may be repeated for elective credit.**  
**Fees:** $35 lab fee

**Advanced Guitar/Guitar Ensemble** (Coming in 2018-2019)  #6045
Advanced Guitar is a continuation of Intermediate Guitar. Emphasis is on advanced note reading and rhythms, and use of upper positions and solo playing. Instruction in solo and ensemble performance is included. Public performance is a possibility. Placement is by teacher recommendation/audition. Classical acoustic guitars will be provided for class instruction, but it is recommended that students have access to a classical acoustic guitar for home practice.

**Grades:** 9-12  
**Prerequisite:** Intermediate Guitar or Director consent. Auditions will be held prior to course selection.  
**Credit:** 1 credit, 2 semesters  
**Course may be repeated for elective credit.**  
**Fees:** $35 lab fee
Vocal Music

Falconaires Men’s Choir #6063
Falconaires Men’s Choir is an all-male performance-based class that requires no audition. Students focus on learning the basics of reading music through repertoire. Falconaires Men’s Choir performs a variety of repertoire from the Renaissance to Twentieth Century, in a variety of voicings appropriate to the group. A foundation of basic music theory, vocal technique, and sight-reading is strengthened in this course in preparation for Concert Chorale or Change of Pace. Four concert performances are required throughout the school year.
Grades: 9–12
Prerequisite: None.
Fee: $25 co-curricular, $20 uniform rental, $20 travel
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.

Women’s Blue Choir #6064
Women’s Blue Choir is an all-female performance-based class that requires no audition. Students focus on learning the basics of reading music through repertoire. Women’s Blue Choir performs a variety of repertoire from the Renaissance to Twentieth Century, in a variety of voicings appropriate to the group. A foundation of basic music theory, vocal technique, and sight-reading is strengthened in this course in preparation for Advanced Women’s Silver Choir, Concert Chorale or Change of Pace. Four concert performances are required throughout the school year.
Grades: 9–12
Prerequisite: None.
Fee: $25 co-curricular, $20 uniform, $20 travel
Credit: 1 credit, 2 semesters – Full Year Course
Course may be repeated for elective credit.

Women’s Silver Choir #6065
Advanced Women’s Silver Choir is an advanced ensemble for qualified women. This ensemble requires an audition and the director’s consent. Students expand upon previous knowledge of vocal technique, music history, and sight-reading through repertoire and continued practice. Members of Advanced Women’s Silver Choir are encouraged to develop their lifelong music-making skills through statewide festivals like Solo and Ensemble, All-State Jazz, and All-Regionals. Advanced Women’s Silver Choir performs sophisticated arrangements from diverse genres of music in a variety of voicings ranging from 1-5 singers on a part. Advanced Women’s Silver Choir will have 5-8 performances a year. Students are expected to practice the attitude and self-discipline of a working musician.
Grades: 9–12
Prerequisite: Director consent. Auditions will be held prior to course selection.
Fee: $25 co-curricular, $20 uniform, $35 travel
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.

Change of Pace Choir #6070
Change of Pace Choir is a small advanced ensemble for qualified men and women. This ensemble requires an audition and the director’s consent. Students expand upon previous knowledge of vocal technique, music history, and sight-reading through vocal improvisation, vocal jazz, and collaborative performances. Members of Change of Pace Choir are encouraged to develop their lifelong music-making skills through statewide festivals like Solo and Ensemble, All-State Jazz, and All-Regionals. Change of Pace Choir performs mostly a cappella and jazz arrangements from diverse eras in a variety of voicings. Change of Pace Choir has 8-11 performances a year. Students are expected to practice the attitude and self-discipline of a working musician.
Grades: 9–12
Prerequisite: Director consent. Auditions will be held prior to course selection.
Fee: $25 co-curricular, $50 travel
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.

AP Music Theory #6098
AP Music Theory is a fast-paced course that prepares students not only for the Advanced Placement test, but also prepares students for undergraduate music entrance exams in college. Students learn about composition, analysis, and develop their aural/listening skills. This course uses music history and music listenings to develop theory comprehension and aural skills. Due to the College Board AP Music Theory content requirements, the Catalina Foothills AP Music Theory course also includes sight-singing.
Grades: 11–12
Prerequisite: Performance experience (in ensembles or private lessons) and teacher approval.
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.

Concert Chorale #6075
Concert Chorale is an advanced ensemble for qualified men and women. This ensemble requires an audition and the director’s consent. Students cultivate a knowledge of vocal technique, music history, and sight-reading through repertoire and continued practice. Concert Chorale, Catalina Foothill’s largest choral ensemble, performs advanced pieces from diverse genres of music. Performers sing in many voicings from a whole section to two on a part. Members of Concert Chorale are encouraged to develop their lifelong music-making skills through statewide festivals like Solo and Ensemble, All-State Jazz, and All-Regionals. Concert Chorale participates in 6-9 performances during the year. Students are expected to practice the attitude and self-discipline of a working musician.
Grades: 9–12
Prerequisite: Director consent. Auditions will be held prior to course selection.
Fee: $25 co-curricular, $20 uniform, $35 travel
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.
### Theatre Arts

#### Theatre Fundamentals #6100
Theatre Fundamentals is a one-year introductory theatre course designed to introduce students to a variety of theatrical elements. Students will spend one semester physically working with professional theatrical equipment and learning the foundation of technical productions in the theatre setting, in addition to providing technical support for the Theatre Department’s seasonal productions. The other semester will engage students in several hands-on independent and collaborative acting projects. Students will examine how theatre artists tell stories through various performance styles including, but not limited to monologues, scenes, improvisation, and stage combat. Additionally, students will learn to critically examine live theatre performances throughout the course. Students are expected to attend and critique two live theatre performances per semester.

**Grades:** 9-12  
**Prerequisite:** None  
**Fee:** $40 lab fee  
**Credit:** 1 credit, 2 semesters  
**Course may NOT be repeated.**  
* This is a JTED class

#### Intermediate Theatre Productions #6200
Theatrical Productions is a one-year course focusing on the creation of scenery, lighting and sound for the theatre from design concept to construction and implementation. Scenic design concepts, elements and principles, as well as extensive construction techniques will be covered during first semester. Second semester will focus on lighting design including electricity, history of lighting design, technical lighting elements, computer and manual lighting boards, intelligent lighting, and color theory, and sound design including sound equipment usage, theatrical soundboard operation, sound effect techniques, and theatrical sound system design. The class will be directly involved in the design and construction of the Theatre department’s seasonal production. Students are expected to attend and critique two live theatre performances per semester.

**Grades:** 10–12  
**Prerequisite:** Theatre Fundamentals and teacher approval  
**Fee:** $25 co-curricular fee, $40 lab fee  
**Credit:** 1 credit, 2 semesters  
**Course may NOT be repeated.**  
* This is a JTED class

#### Advanced Theatre Production 1 #6220
Advanced Theatre Production 1 is a one-year class, which allows students to explore theatre with an in-depth, hands-on approach. Students are assigned production roles and jobs and continue their design work by applying their skills to actual performances. Integrating knowledge and skills into actual performances allows students to explore and experience the professional nuances of technical theatre. The end-of-semester public productions are the culmination of the students’ work for the semester. This class requires time after-school to produce the public performances including, construction / technical rehearsals after-school and productions in the evenings and weekends. Students are expected to attend all scheduled rehearsals and participate in all performances.

**Grades:** 11–12  
**Prerequisite:** Intermediate Theatre Production and teacher approval  
**Fee:** $25 co-curricular fee, $50 lab fee  
**Credit:** 1 credit, 2 semesters  
* This is a JTED class

#### Advanced Theatre Production 2 #6240
Students in Advanced Theatre Production 2 are responsible for the design elements of the student-directed shows in the ATP class. All theatrical design jobs will be assigned, and the show will be produced, built and run by the students. Students are assigned production roles and continue their design work by applying their skills to a realized performance. The end-of-semester public productions are the culmination of their work for the semester. This class requires time after-school to produce the public performances including; construction/technical rehearsals after-school and productions in the evenings and weekends. Students are expected to attend all scheduled rehearsals and participate in all performances.

**Grades:** 12  
**Prerequisite:** Advanced Theatre Production 1 and teacher approval  
**Fee:** $25 co-curricular fee, $50 lab fee  
**Credit:** 1 credit, 2 semesters  
**Course may be repeated for elective credit.**  
* This is a JTED class

#### Intermediate Theatre Arts #6250
This course builds upon the basics of acting and performance taught in the Theatre Fundamentals course. Students will continue to develop their knowledge and understanding of various acting theories and techniques by applying them in scene and monologue performances. Additionally, students will engage in various areas of study including, but not limited to, auditions, theatre history, playwriting, and directing. Students are expected to attend and critique two live theatre performances each semester.

**Grades:** 10–12  
**Prerequisite:** Theatre Fundamentals and teacher approval  
**Fee:** $25 co-curricular fee, $40 lab fee  
**Credit:** 1 credit, 2 semesters  
**Course may NOT be repeated.**

#### Advanced Theatre Arts - Semester #6300 (S1), #6305 (S2)
This course builds upon the skills and techniques taught in Intermediate Theatre Arts. Students will continue to expand their understanding of acting and performance skills and techniques. Units of study may include advanced acting, advanced directing, film, dialects, devising, advanced improvisation, and advanced stage combat. Students will present a showcase of their work at the end of the first semester, and will participate in preparing and performing one-act plays during the second semester. It is expected that students will attend after-school rehearsals as scheduled. Advanced Theatre Arts and Advanced Theatre Arts: Acting Ensemble will participate in joint units of study as well as course specific units and projects. This course may be repeated.

**Grades:** 11–12  
**Prerequisite:** Intermediate Theatre Arts and teacher approval  
**Fee:** $25 co-curricular fee, $25 lab fee  
**Credit:** .5 credit, 1 semester  
**Course may be repeated for elective credit.**

#### Advanced Theatre Arts - Year #6307
This course builds upon the skills and techniques taught in Intermediate Theatre Arts. Students will continue to expand their understanding of acting and performance skills and techniques. Units of study may include advanced acting, advanced directing, film, dialects, devising, advanced improvisation, and advanced stage combat. Students will present a showcase of their work at the end of the first semester, and will participate in preparing and performing one-act plays during the second semester. It is...
expected that students will attend after school rehearsals as scheduled. Advanced Theatre Arts and Advanced Theatre Arts: Acting Ensemble will participate in joint units of study as well as course specific units and projects. This course may be repeated.

Grades: 11–12
Prerequisite: Intermediate Theatre Arts and teacher approval
Fee: $25 co-curricular fee, $50 lab fee
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.

Advanced Theatre Arts: Acting Ensemble - Year #6310
Building on the skills introduced in Fundamental and Intermediate Theatre Arts, the focus of the Acting Ensemble course is performance. In this one-semester course, students will practice and apply new acting concepts in an in-depth, hands-on approach. Students will audition for placement based on roles and jobs available and continue their acting and directing work in a fully produced theatre work. Specific information about productions and the positions available may be obtained from the Theatre Office. It is expected that students will attend after school rehearsals as scheduled. Advanced Theatre Arts and Advanced Ensemble Arts: Acting Ensemble will participate in joint units of study as well as course specific units and projects.

Grades: 11–12
Prerequisite: Intermediate Theatre Arts and teacher approval
Fee: $25 co-curricular fee, $50 lab fee
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.

Visual Art

Studio Art 1 #6320
This Level 1 art course is a foundational class offered to all beginning art students as they explore instruction in a variety of art media. Students learn a range of concepts including perspective, composition, drawing skills, and color theory, as well as the elements of art and the principles of design, which provide the framework for the course. The course also addresses the disciplines of art history and aesthetics. Students enter the class at a variety of levels and with differing art experiences and abilities. However, this does not keep any student from reaching their goals in art. Mediums include pencil, charcoal, pastels, painting, printmaking and collage.

Grades: 9–12
Prerequisite: None
Fee: $20 lab fee
Credit: 1 credit, 2 semesters

Studio Art 2 #6330
Studio Art 2 cultivates previously developed artistic knowledge and skills learned in Studio Art 1. The course expands on the foundations of art including art history, theory, concepts and skills. It empowers the already motivated student to make choices about the content and interpretation of their artwork, explore personal interests, solve problems, and communicate ideas in innovative ways. Students further develop skills in multiple medias, art production, design thinking, criticism, and art appreciation.

Grades: 10–12
Prerequisite: Studio Art 1 and teacher approval
Fee: $20 lab fee
Credit: 1 credit, 2 Semesters

Studio Art 3 #6340
Studio Art 3 draws on the student’s prior knowledge, expanding and improving artistic understandings and skills by using creative processes and exploring new media such as textiles and fiber arts. Students make higher order aesthetic choices, tapping more consciously into developing individual creativity and continuing to develop the ability to articulate about visual imagery and concepts. This course addresses the work and ideas of contemporary global artists. Students use critical thinking to evaluate their own work and the work of others. There is a focus on creating portfolio quality artwork, developing an artist statement, and participating in exhibitions.

Grades: 11–12
Prerequisite: Studio Art 2 and teacher approval
Fee: $20 lab fee
Credit: 1 credit, 2 semesters

Studio Art 4 #6350
Studio Art 4 is designed for the proficient, self-directed, and highly motivated artist. It draws on the student’s prior knowledge and challenges them to direct their artistic growth by providing a variety of choices in subject matter, interpretation of concepts, and media. Students use informed and critical decision-making in the evaluation of their art while maintaining and practicing the attitude and self-discipline of a working artist. Upon successful completion, the student should be able to demonstrate quality, concentration, and a breadth of experience in a body of works and collaterals suitable for their portfolio.

Grades: 12
Prerequisite: Studio Art 3 and teacher approval
Fee: $20 lab fee
Credit: 1 credit, 2 semesters
AP Studio Art: 2-Dimensional Design (for 2018-19)  #6351
AP Studio Art 2D is designed for the advanced artist and follows the guidelines and recommendations of the College Board's Advanced Placement art program. This course offers 2-D design students a concentrated program which enables them to apply for college credit in Art. Students will create a portfolio of work to demonstrate focus in the artistic skills and ideas they have developed, refined, and applied over the course of the year, exploring advanced techniques and materials, media exploration, building concepts, and thematic development. Students are expected to already possess a variety of skills in a variety of media, think creatively, and manage their time to meet both the high expectations and the deadlines of the course. AP Studio Art is designed for students who are self-directed, highly motivated, and seriously interested in the practical experience of art. Note: Students who take an AP class are expected to complete the AP portfolio. Grades: 12
Prerequisite: Successful completion of a previous Studio Art course and AP Art teacher approval, which includes a review of 8 completed artworks at the AP level of performance.
Fee: $20 lab fee
Credit: 1 credit, 2 semesters

Ceramics and Sculpture 1  #6433
This course will provide students with a hands-on approach to making functional and sculptural artwork using a variety of media: clay, paper, fiber, wire, plaster, and recycled materials. Students will learn basic wheel throwing techniques with a focus on creating cylinder-formed objects and bowls and basic hand-building methods such as slab building, hollow form, and coil. A variety of decorative, glazing, and firing techniques will be introduced. Students will focus on the elements and principles of design with an emphasis on 3D aspects. Class projects will foster individual skills and expression and focus on creativity, expression of ideas, comprehension of tools and techniques, and problem-solving techniques explored through sculptural media.
Grades: 9-12
Prerequisite: None
Fee: $10 lab fee
Credit: .5 credit, 1 semester

Ceramics and Sculpture 2  #6434
This course will provide students with an in-depth study of ceramics and sculpture including a more advanced study of wheel throwing techniques hand-building methods. Students will continue the advanced study of the elements and principles of design and critique. The course uses both historical and contemporary models as a catalyst for projects and discussions. Class projects will continue to foster individual skills and expression with a focus on creativity, expression of ideas, and problem-solving techniques explored through sculptural media. Students will practice the attitude and self-discipline of a working artist.
Grades: 9-12
Prerequisite: Ceramics and Sculpture 1
Fee: $10 lab fee
Credit: .5 credit, 1 semester

AP Studio Art: 3-Dimensional Design (for 2018-19)  #6352
AP Studio Art 3D is designed for the advanced artist and follows the guidelines and recommendations of the College Board's Advanced Placement art program. This course offers a 3-D design student a concentrated program which enables them to apply for college credit in Art. Emphasis is centered on studio work, the preparation of a portfolio of work to demonstrate the artistic skills and ideas students have developed, refined, and applied over the course of the year to produce visual compositions, and the submission of the portfolio for an Advanced Placement grade. AP Studio Art is designed for students who are self-directed, highly motivated and seriously interested in the practical experience of art. Note: Students who take an AP class are expected to complete the AP portfolio. Grades: 12
Prerequisite: Successful completion of Ceramics & Sculpture 1 and 2, and AP Art teacher approval, which includes a review of 8 completed artworks at the AP level of performance.
Fee: $20 lab fee
Credit: 1 credit, 2 semesters
Graphic Design 1  
#6401
Graphic Design 1 is designed to introduce students to the fundamentals of graphic design. Students will use a variety of materials, on and off the computer, to produce work that communicates an idea to a specific audience. Students learn the practical application of the basics of Adobe Photoshop CC and Adobe Illustrator CC. Adobe CC is one of the most powerful programs used by professional graphic designers. Students will produce documents that include creating original layouts, logos, brochures as well as promotional materials and digital art. This exploration class includes opportunities for communication, creativity and innovation, critical thinking and problem solving.
Grades: 10-12
Fee: $60 lab fee
Credit: 1 credit, 2 semesters
* This is a JTED class

Graphic Design 2  
#6410
Graphic Design 2 is designed to be a second level for students interested in continuing their study of the graphic design field. Students will learn more in-depth techniques in Adobe Photoshop CC and Adobe Illustrator CC. Students will also be introduced to Adobe InDesign CC, the industry standard for page layout. Students will investigate more complex concepts and techniques of media arts and graphic design including poster layout, composite photos, package design, logo design and animation. Projects will require the use of creativity and innovation, critical thinking and problem solving and communication.
Grades: 11-12
Prerequisite: Graphics Design 1 and teacher approval
Fee: $60 lab fee
Credit: 1 credit, 2 semesters
* This is a JTED class

Graphic Design 3  
#6420
Graphic Design 3 is designed to develop students' skills based on real time printing requests. Students will be part of a student run print shop that will include screen printing and other graphic design requests (e.g., posters, brochures, logo design). They will continue to learn techniques and processes in Adobe Photoshop CC, Adobe Illustrator CC and Adobe InDesign CC and acquire higher-level skills in the area of screen printing and digital imaging. Students will work toward industry certification in Adobe Illustrator CC, and are expected to practice the attitude and self-discipline of a working professional.
Grades: 12
Prerequisite: Graphic Design 2 and teacher approval
Fee: $60 lab fee
Credit: 1 credit, 2 semesters
* This is a JTED class

Graphic Design Publication  
#6425
Graphic Design Publication is a course that offers students an opportunity to learn publication skills and commercial art while becoming a part of a design team. In addition to learning advanced journalism skills such as interviewing, copy writing, and editing, students will explore the basics of photojournalism, concept design, typography, and publication layout. State-of-the-art digital photography and industry standard publishing programs enhance student processing of an all-digital book. Students will be required to write frequently, conduct interviews, take photographs, meet deadlines, and contribute to the overall production of the book.
Grades: 11-12
Prerequisite: Graphic Design 1 or Photo 1, and teacher approval
Fee: $30 lab fee
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.
* This is a JTED class

Photo Imaging 1  
#7570
Photo Imaging 1 introduces students to the basics of darkroom photography as well as digital camera techniques. Students develop camera skills, learn darkroom processes and post-production editing, and investigate the elements of art and principles of design. This course offers the students the opportunity to elevate the quality of their photographs and appreciation of art by providing a better understanding and use of these mediums. Students learn to observe, express themselves nonverbally, and solve problems. Post-production editing instruction is provided in Adobe Bridge and Photoshop.
Grades: 10-12
Prerequisite: None
Credit: 1 credit, 2 semesters
Fee: $80 lab fee
* This is a JTED class

Photo Imaging 2  
#7580
Photo Imaging 2 builds on the skills developed in Photo Imaging 1. Emphasis is placed on further refinement of camera technique, studio lighting, and post-production editing. Students will be introduced to on-location lighting in this course. They will make higher order aesthetic choices and tap more consciously into the development of individual creativity. Students will continue to develop their ability to create conceptual work. Further exploration of historical figures, contemporary issues, and a deeper understanding of photographic materials and cameras are also integrated into the course. Post-production editing instruction is provided in Adobe Photoshop and Lightroom. Students are expected to photograph outside of class time.
Grades: 11-12
Prerequisite: Photo Imaging 1 and teacher approval
Credit: 1 credit, 2 semesters
Fee: $80 lab fee
* This is a JTED class

Photo Imaging 3  
#7590
Photo Imaging 3 builds on the skills developed in Photo Imaging 2. Emphasis is placed on advanced camera techniques, lighting, idea development, critique, and post-production editing. This course will also focus on the development of a personal vision and a college-level portfolio that reflects artistic growth. Post-production editing instruction is provided in Adobe Photoshop and Lightroom. Students are expected to practice the attitude and self-discipline of a working artist. Students are expected to photograph outside of class time, and are encouraged to have their own DSLR camera.
Grade: 12
Prerequisite: Photo Imaging 2
Credit: 1 credit, 2 semesters
Fee: $80 lab fee
* This is a JTED class
Kinetic Wellness
(Physical Education and Health)

One year (1 credit) of Physical Education is required for CFHS graduation. To fulfill the graduation requirement, students must take two different PE classes. One class must be taken from the Group Fitness options and one class from the Individual Fitness options. One of the .5 credit requirements must be taken as a freshman. The second .5 credit may also be taken during freshman year or at any time during grades 10-12. One semester (.5 credit) of Health is required for CFHS graduation. Health must be taken as a freshman.

Health

One semester (.5 credit) required – Grade 9

The goal of health education is to help students develop the essential skills necessary to adopt, practice, and maintain health-enhancing behaviors.

Health and Wellness #7103

This course addresses health and wellness topics and issues relevant to high school students. Students will acquire knowledge and skills necessary to maintain lifelong good health and to make informed choices and accept personal responsibility for those choices. The units covered in this course include nutrition and fitness; mental and emotional health; first aid; tobacco, alcohol, and other drugs; and human growth and development. This is a required course that must be taken in freshman year. (Students may take CFHS Health through CFSD Community Schools, if offered, summer prior to or following freshman year.

Grade: 9
Prerequisite: None
Credit: .5 credit, 1 semester

Physical Education

Two semesters (1 credit) required for CFHS graduation

One class must be taken from the Group Fitness options and one class from the Individual Fitness options. One of the .5 credit requirements must be taken as a freshman.

Physical education offers a variety of group and individual fitness-based activities anchored in the goal of lifelong fitness and wellness. Students will develop physical skills and knowledge that can be used throughout life. A cornerstone of the program is a health-related fitness assessment administered in each course.

Group Fitness Options

Recreational Fitness (Silver) #7010

This course is designed to offer students a wide variety of group fitness activities that enhance physical skills, movement, and wellness. Activities may include team handball, volleyball, over the line softball, 3 on 3 soccer, basketball, and flag football. Through participation in these activities, students will develop cardiovascular fitness, muscular strength, muscular endurance, and flexibility. The concepts of teamwork and sportsmanship are emphasized. Fitness assessments will be conducted a minimum of 2 times per semester. This course meets the .5 credit requirement for Group Fitness.

Grades: 9-12
Prerequisite: None
Credit: .5 credit, 1 semester
Course may be repeated for elective credit.

Recreational Fitness (Blue) #7020

This course is designed to offer students a wide variety of group fitness activities that enhance physical skills, movement, and wellness. Activities may include ultimate Frisbee, lacrosse, indoor soccer, speedball, flickerball, and foot tennis. Through participation in these activities, students will develop cardiovascular fitness, muscular strength, muscular endurance, and flexibility. The concepts of teamwork and sportsmanship are emphasized. Fitness assessments will be conducted a minimum of 2 times per semester. This course meets the .5 credit requirement for Group Fitness.

Grades: 9-12
Prerequisite: None
Credit: .5 credit, 1 semester
Course may be repeated for elective credit.
Individual Fitness Options

**Cardio Fitness**  #7050
This course is designed to offer students a wide variety of cardiovascular fitness activities that enhance physical skills, movement, and wellness. Activities may include cardiovascular endurance training, step aerobics, Yoga, Pilates, jogging/walking, dance/rhythm, basic calisthenics, and interval training. Through participation in these activities, students will develop cardiovascular fitness, muscular strength, muscular endurance, and flexibility. Fitness assessments will be conducted a minimum of 2 times per semester. This course meets the .5 credit requirement for Individual Fitness.

**Grades:** 9-12  
**Prerequisite:** None  
**Credit:** .5 credit, 1 semester  
**Course may be repeated for elective credit.**

**Strength and Fitness**  #7051
This is an introductory course designed to teach students the proper techniques in developing muscular strength and endurance, flexibility, and cardiovascular fitness. Students will be taught the principles of training, how these principles relate to conditioning, and injury prevention. A unit on dance/rhythm is also included. Students will assess their current fitness level, develop a goal-oriented fitness plan, and demonstrate progress toward goals. Fitness assessments will be conducted a minimum of 2 times per semester. This course meets the .5 credit requirement for Individual Fitness.

**Grades:** 9-12  
**Prerequisite:** None  
**Credit:** .5 credit, 1 semester  
**Course may be repeated for elective credit.**

**The Fit Female**  #7052
This course is designed specifically for the female student who is interested in strength training techniques and endurance, cardiovascular fitness, flexibility, core strength development, and body contouring. Students will be taught the principles related to strength and conditioning with an emphasis on injury prevention. A unit on dance/rhythm is also included. Students will assess their current fitness level, develop a goal-oriented fitness plan, and demonstrate progress toward goals. Fitness assessments will be conducted a minimum of 2 times per semester. This course meets the .5 credit requirement for Individual Fitness.

**Grades:** 9-12  
**Prerequisite:** None  
**Credit:** .5 credit, 1 semester  
**Course may be repeated for elective credit.**

Advanced PE Electives

**Intermediate Strength and Fitness**  #7070
This course is designed to build upon the strength training skills in Strength and Fitness or The Fit Female. Emphasis is on developing muscular strength and endurance and other skill related components of fitness (flexibility, cardiovascular endurance, and body composition). Students will assess their current fitness level and develop an individualized conditioning program to meet desired outcomes. Supplemental lifts will be researched and incorporated into students’ individualized programs. Connections will be made between anatomy and specific conditioning activities. Goal setting and related journal work will be incorporated into the course. Students will be evaluated on knowledge, improvement, and work accomplished toward goal attainment. Fitness assessments will be conducted a minimum of 2 times per semester.

**Grades:** 10-12  
**Prerequisite:** Strength and Fitness or The Fit Female  
**Credit:** .5 credit, 1 semester  
**Course may be repeated for elective credit.**

**Advanced Strength and Fitness**  #7071
This course is designed for the highly motivated student who wants to learn advanced techniques in developing muscular strength and endurance and other skill related components of fitness (flexibility, cardiovascular endurance, and body composition). Students will participate in a variety of conditioning activities (Olympic and power lifting, speed, agility, and interval training) and will implement a conditioning program designed around individual needs and goals. Goal setting and related journal work will be incorporated into the course. Students will be evaluated on knowledge, improvement, and work accomplished toward goal attainment. Fitness assessments will be conducted a minimum of 2 times per semester.

**Grades:** 10-12  
**Prerequisite:** Strength and Fitness or The Fit Female and teacher approval  
**Credit:** .5 credit, 1 semester  
**Course may be repeated for elective credit.**

**Lifetime Sports & Fitness**  #7072
This course is an advanced course for students interested in individualized sports and racquet-based activities. This course is designed to offer students a wide variety of fitness activities that enhance physical skills, movement, and wellness. Activities may include badminton, golf, pickle ball, tennis, Frisbee golf, archery, and table tennis. Through participation in these activities, students will develop cardiovascular fitness, muscular strength, muscular endurance, and flexibility. Fitness assessments will be conducted a minimum of 2 times per semester. This course does not meet the required graduation credit.

**Grades:** 10-12  
**Prerequisite:** Recreational Fitness Silver or Blue  
**Credit:** .5 elective credit, 1 semester  
**Course may be repeated for elective credit.**
CFSD is a member of the Pima County Joint Technological District (JTED). In conjunction with business and industry, JTED provides career and technical education programs for students that focus upon both the educational and employment needs of Pima County. JTED courses provide access to state-of-the-art equipment and training programs in a variety of career pathways, offer articulated college-level credit (applicable courses only), offer the opportunity for industry certifications, and the opportunity to work at an advanced level in a variety of career areas.

CFHS JTED course offerings are listed below. See the course descriptions for descriptions and prerequisite information.

**Career and Technical Education**

- Graphic Design 1, 2, 3 and Publication
- Photo Imaging 1, 2, 3
- Media Production Fundamentals, Advanced Media Production 1 & 2, Media Co-Op
- Introduction to Digital Communications: Writing for News/Falcon Voice, Digital Communications: Writing for Investigative Reporting, Digital Communications: Broadcast News Production

**Science**

- Bioscience - Biology: Biotech Foundations, Biomedical 2 Course (2018-19), AP Biology
- Introduction to Engineering Design, Principles of Engineering, Digital Electronics, Engineering Design and Development

**Pima County JTED Programs**

CFHS Students interested in off-site JTED courses in the following areas should see the CFHS CTE/JTED Coordinator for registration information. These courses are free or nominal cost to CFHS students and credits earned will be noted on the CFHS transcript. Info at pima@jted.org/program.

3D Animation & Game Design • Automotive Technology • Aviation Technology • Certified Caregiver • Cosmetology • Construction Technology • Culinary Arts • Early Childhood Education • Electrical Utility Technician • Emergency Medical Technician • Fire Services • Graphic Communications • Healthcare Information Technology • Heavy Equipment Operations • Information Technology • Law, Public Safety & Security • Licensed Nursing Assistant • Medical Assistant • Precision Manufacturing • Physical Therapy Technician • Veterinary Science

**Digital Communications/Journalism Pathway**

**Introduction to Digital Communications: Writing for News** #1341

Introduction to Digital Communications will focus on essential concepts of writing and journalistic skills. The students will use literary skills, journalists’ vocabulary, and reasoning, to write and produce articles for publication. Students will acquire the prerequisite skills necessary for advanced writing and editing in newspaper (Falcon Voice), investigation, media, research, and problem solving through authentic journalistic experiences.

Grades: 10-12
Prerequisite: English 9
Credit: 1 credit, 2 semesters
* This is a JTED class

**Digital Communications: Writing for Investigative Reporting** #1351

Digital Communications: Writing for Investigative Reporting will focus on advanced concepts of journalistic skills (writing, interviewing, editing and publishing) while learning the editorial responsibilities of newspaper production. The students will use writing skills in interviewing, editing, script writing and creation of broadcast news articles and videos for web-based publications. Students will acquire 21st century skills through teamwork, professional relationships, authentic news projects (Falcon Voice), entrepreneurial publishing, and representing and reporting real-life situations.

Grades: 11-12
Prerequisite: Introduction to Digital Communications
Credit: 1 credit, 2 semesters
* This is a JTED class

**Digital Communications: Broadcast News Production** #1361

Digital Communications: Broadcast News Production will focus on advanced concepts of journalistic skills (interviewing, editing and digital publishing) while learning the fundamentals of media broadcasting. The students will use technical skills in camera interviewing, editing, and production packages for broadcast and web-based publications. Students will acquire 21st century skills through teamwork, professional relationships, authentic broadcast video projects (interviews, documentaries, news features), entrepreneurial broadcasting, and representing and reporting real-life situations.

Grades: 11-12
Prerequisite: Introduction to Digital Communications
Credit: 1 credit, 2 semesters
* This is a JTED class
**Media Productions Pathway**

**Media Production Fundamentals**

#7510

This is a one-year course that provides students with the skills and knowledge to master lighting, camera operation, visual composition, live video switching, storytelling, basic audio production and editing. The students produce specially designed video projects that apply technical knowledge and skills in production of television programs. Focused instruction in 21st century learning skills include leadership, productivity, teamwork, digital-age literacy, technology & tools, critical & creative thinking, and data analysis. Other important video production skills include interviewing, scripting, advertising techniques, studio operation, and audience analysis. Basics of copyright law and broadcast ethics are also included. (Credit through Pima Community College may be available – see instructor).

**Grades:** 9-12

**Credit:** 1 credit, 2 semesters

*This is a JTED class*

**Advanced Media Production 1**

#7520

This one-year course builds on the skills learned in Media Production Fundamentals. The course provides a focus on producing actual video productions that will meet the needs of clients or be submitted for distribution/competition. This advanced class will also focus on broadcast and industrial video production techniques. Podcasts as well as streaming production techniques will be covered. Career and technology trends will be discussed. A personal portfolio and resume will be developed as well as a job career plan. Job research and interviewing techniques are practiced. (Credit through Pima Community College may be available – see instructor).

**Grades:** 10-12

**Credit:** 1 credit, 2 semesters

*This is a JTED class*

**Advanced Media Production 2**

#7525

This one-year course builds on the skills learned in Advanced Media Production. The course provides a focus on creating, critiquing and producing actual video for TV and broadcast productions that will meet the needs of clients or be submitted for distribution/competition. This advanced class will also focus on broadcast and industrial video production techniques. Advanced podcasts as well as advanced streaming production techniques will be covered. Career certifications will be optional. A personal portfolio and resume will be developed as well as a job career plan. Job research and interviewing techniques are practiced. (Credit through Pima Community College may be available – see instructor).

**Grades:** 11-12

**Credit:** 1 credit, 2 semesters

*This is a JTED class*

**Media Cooperative Education**

#7530

Media Cooperative Education combines enriching class projects with on-the-job learning. This course, worth two credits, meets 4 hours/week as a Media Coop/Internship class, and requires an average of 10-15 hours of cooperative CTE (Career and Technical Education) employment or volunteer work per week. Students acquire advanced skills related to their employment in the classroom, and the monitored work hours provide a practical application of classroom study. The course is awarded a letter grade and credit for the classroom work, and an additional Pass/Fail credit for the work/volunteer hours.

**Grade:** 12

**Prerequisites:** Advanced Media Production 2 and teacher approval

**Credit:** 2 credits, 2 semesters

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**Entrepreneurship Pathway**

**Entrepreneurship: Business and Marketing 1**

#7700

Entrepreneurship: Business and Marketing 1 prepares students for business and marketing careers in the 21st century. Students develop critical thinking and communication skills for use in the global business community. The course provides career exploration in marketing and business careers, market trends, problem solving, leadership skills, critical thinking, business applications, and personal financial management. Students will study and practice the personal banking, financial, and investing skills necessary to prepare a sound basis for entrepreneurship. Class projects will further advance collaborative and systemic thinking skills by applying technology and tools used in business and marketing professions. This course is integrated with participation in DECA, a national marketing organization for students. (Credit through Pima Community College may be available – see instructor).

**Grades:** 10-12

**Prerequisites:** None

**Credit:** 1 credit, 2 semesters

*This is a JTED class*

**Entrepreneurship: Business and Marketing 2**

#7710

Entrepreneurship: Business and Marketing 2 is designed to prepare students for business or entrepreneurial employment. A thorough knowledge of marketing, management, leadership, finance, accounting, and economic skills will offer additional opportunities in 21st century business and marketing careers. The practical application of marketing essentials affords students opportunities to develop into socially responsible and culturally competent leaders. Through a combination of collaborative and self-directed projects, students analyze, synthesize, and apply their business acumen toward entrepreneurial endeavors. Advanced marketing students are encouraged to pursue officer/leadership positions within DECA, an association of marketing students. (Credit through Pima Community College may be available – see instructor).

**Grades:** 10-12

**Prerequisites:** Entrepreneurship 1

**Credit:** 1 credit, 2 semesters

*This is a JTED class*

**Entrepreneurship: Business and Marketing Co-Op**

#7720

Entrepreneurship: Business and Marketing Co-Op combines enriching class projects with on-the-job learning. This course, worth two credits, meets 4 hours/week as an Advanced Marketing Coop/Internship class, and requires an average of 10-15 hours of cooperative CTE (Career and Technical Education) employment or volunteer work per week. Students acquire
Photo Imaging 1
Photo Imaging 1 introduces students to the basics of darkroom photography as well as digital camera techniques. Students develop camera skills, learn darkroom processes and post-production editing, and investigate the elements of art and principles of design. This course offers the students the opportunity to elevate the quality of their photographs and appreciation of art by providing a better understanding and use of these mediums. Students learn to observe, express themselves nonverbally, and solve problems. Post-production editing instruction is provided in Adobe Bridge and Photoshop.

Grade: 10-12
Prerequisite: None
Credit: 1 credit, 2 semesters
Fee: $80 lab fee
* This is a JTED class

Photo Imaging 2
Photo Imaging 2 builds on the skills developed in Photo Imaging 1. Emphasis is placed on further refinement of camera technique, studio lighting, and post-production editing. Students will be introduced to on-location lighting in this course. They will make higher order aesthetic choices and tap more consciously into the development of individual creativity. Students will continue to develop their ability to create conceptual work. Further exploration of historical figures, contemporary issues, and a deeper understanding of photographic materials and cameras are also integrated into the course. Post-production editing instruction is provided in Adobe Photoshop and Lightroom. Students are expected to photograph outside of class time.

Grade: 11-12
Prerequisite: Photo Imaging 1 and teacher approval
Credit: 1 credit, 2 semesters
Fee: $80 lab fee
* This is a JTED class

Photo Imaging 3
Photo Imaging 3 builds on the skills developed in Photo Imaging 2. Emphasis is placed on advanced camera techniques, lighting, idea development, critique, and post-production editing. This course will also focus on the development of a personal vision and a college-level portfolio that reflects artistic growth. Post-production editing instruction is provided in Adobe Photoshop and Lightroom. Students are expected to practice the attitude and self-discipline of a working artist. Students are expected to photograph outside of class time, and are encouraged to have their own DSLR camera.

Grade: 12
Prerequisite: Photo Imaging 2 and teacher approval
Credit: 1 credit, 2 semesters
Fee: $80 lab fee
* This is a JTED class

Graphic Design Pathway
Graphic Design Pathway is designed to introduce students to the fundamentals of graphic design. Students will learn the practical application of the basics of Adobe Photoshop CC and Adobe Illustrator CC. Adobe CC is one of the most powerful programs used by professional graphic designers. Students will produce documents that include creating original layouts, logos, brochures as well as promotional materials and digital art. This exploration class includes opportunities for communication, creativity and innovation, critical thinking and problem solving.

Grade: 10-12
Prerequisite: Graphics Design 1 and teacher approval
Credit: 1 credit, 2 semesters
* This is a JTED class

Graphic Design 1
Graphic Design 1 is designed to introduce students to the fundamentals of graphic design. Students will learn the practical application of the basics of Adobe Photoshop CC and Adobe Illustrator CC. Adobe CC is one of the most powerful programs used by professional graphic designers. Students will produce documents that include creating original layouts, logos, brochures as well as promotional materials and digital art. This exploration class includes opportunities for communication, creativity and innovation, critical thinking and problem solving.

Grade: 10-12
Prerequisite: Graphics Design 1 and teacher approval
Credit: 1 credit, 2 semesters
* This is a JTED class

Graphic Design 2
Graphic Design 2 is designed to be a second level for students interested in continuing their study of the graphic design field. Students will learn more in-depth techniques in Adobe Photoshop CC and Adobe Illustrator CC. Students will also be introduced to Adobe InDesign CC, the industry standard for page layout. Students will investigate more complex concepts and techniques of media arts and graphic design including poster layout, composite photos, package design, logo design and animation. Projects will require the use of creativity and innovation, critical thinking and problem solving and communication.

Grade: 11-12
Prerequisite: Graphics Design 1 and teacher approval
Credit: 1 credit, 2 semesters
* This is a JTED class

Graphic Design 3
Graphic Design 3 is designed to develop students’ skills based on real time printing requests. Students will be part of a student run print shop that will include screen printing and other graphic design requests (e.g., posters, brochures, logo design). They will continue to learn techniques and processes in Adobe Photoshop CC, Adobe Illustrator CC and Adobe InDesign CC and acquire higher-level skills in the area of screen printing and digital imaging. Students will work toward industry certification in Adobe Illustrator CC, and are expected to practice the attitude and self-discipline of a working professional.

Grade: 12
Prerequisite: Graphic Design 2 and teacher approval
Credit: 1 credit, 2 semesters
* This is a JTED class
Graphic Design Publication #6425
Graphic Design Publication is a course that offers students an opportunity to learn publication skills and commercial art while becoming part of a design team. In addition to learning advanced journalism skills such as interviewing, copy writing, and editing, students will explore the basics of photojournalism, concept design, typography, and publication layout. State-of-the-art digital photography and industry standard publishing programs enhance student processing of an all-digital book. Students will be required to write frequently, conduct interviews, take photographs, meet deadlines, and contribute to the overall production of the book.
Grades: 11-12
Prerequisite: Graphic Design 1 or Photo 1, and teacher approval
Fee: $30 lab fee
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.
* This is a JTED class

Advanced Theatre Production 1 #6220
Advanced Theatre Production is a one-year class, which allows students to explore theatre with an in-depth, hands-on approach. Students are assigned production roles and jobs and continue their design work by applying their skills to actual performances. Integrating knowledge and skills into actual performances allows students to explore and experience the professional nuances of technical theatre.
Grades: 10-12
Prerequisite: Theatre Fundamentals and teacher approval
Fee: $25 co-curricular fee, $40 lab fee
Credit: 1 credit, 2 semesters
* This is a JTED class

Advanced Theatre Production 2 #6240
Students in ATP 2 are responsible for the design elements of the student-directed shows in the ATP class. All theatrical design jobs will be assigned, and the show will be produced, built and run by the students. Students are assigned production roles and continue their design work by applying their skills to a realized performance.
Grades: 12
Prerequisite: Advanced Theatre Production 1 and teacher approval
Fee: $25 co-curricular fee, $50 lab fee
Credit: 1 credit, 2 semesters
Course may be repeated for elective credit.
* This is a JTED class

Theatre Fundamentals #6100
Theatre Fundamentals is a one-year introductory theatre course designed to introduce students to a variety of theatrical elements. Students will spend one semester physically working with professional theatrical equipment and learning the foundations of technical productions in the theatre setting, in addition to providing technical support for the Theatre Department’s seasonal production. The other semester will focus on how historical and cultural developments have impacted theatre, as well as how text analysis and critique, play writing, and directing affect production. Theatre Fundamentals prepares students for all other Theatre courses.
Grades: 9-12
Prerequisite: None
Fee: $40 lab fee
Credit: 1 credit, 2 semesters
Course may NOT be repeated.
Course may be used to meet Fine Arts requirement
* This is a JTED class

Intermediate Theatre Productions #6200
Theatrical Productions is a one-year course focusing on the creation of scenery, lighting and sound for the theatre from design concept to construction and implementation. Scenic design concepts, elements and principles, as well as extensive construction techniques will be covered during first semester. Second semester will focus on lighting design including electricity, history of lighting design, technical lighting elements, computer and manual lighting boards, intelligent lighting, and color theory, and sound design including sound equipment usage, theatrical soundboard operation, sound effect techniques, and theatrical sound system design. The class will be directly involved in the design and construction of the Theatre Department’s seasonal production.
Grades: 11-12
Prerequisite: Theatre Fundamentals and teacher approval
Fee: $25 co-curricular fee, $40 lab fee
Credit: 1 credit, 2 semesters
Course may NOT be repeated.
* This is a JTED class

Theatre Productions Pathway
Theatre Fundamentals
Intermediate Theatre Productions
Advanced Theatre Production 1
Advanced Theatre Production 2
Biology: Biotechnology Foundations (Bioscience)  #4005
Biology: Biotechnology Foundations is an inquiry-based laboratory course that incorporates the technology and principles that are used in the biotechnology industry. Students will use modern molecular laboratory techniques such as DNA extraction, DNA amplification and visualization of DNA on electrophoresis gels to investigate authentic research questions. A diverse range of topics such as cellular biology, genetics, evolution, and ecology are included in the course. Students will be engaged in activities that promote analytical thinking, systems thinking, scientific inquiry, and the development of higher-level cognitive skills. The course will make use of sophisticated laboratory equipment, technological resources, and media equipment to enhance the inquiry process.

Grades 9-10
Prerequisite: None
Recommendations: For students who comprehend scientific concepts with little difficulty and demonstrate some independence and self-direction in their learning. For students who are interested in acquiring skills needed to pursue higher education or to enter workforce in careers related to biomedical and biotechnology fields.
Credit: 1 credit, 2 semesters

Sports Medicine 2 (2018-19)

Anatomy & Physiology (Sports Medicine)  #4541
Anatomy & Physiology is designed to introduce students to the basics of sports medicine and rehabilitation therapies. It is a hands-on inquiry-based laboratory course that helps students discover the wonders of the human body. The structures and functions of the major body systems will be explored from a sub-cellular level to a multi-cellular organism level. Students will gain extensive knowledge of the human body through lecture, research and reading, and laboratory investigations, including two major dissections. They will learn the basics of anatomy and physiology, CPR, first aid, types and prevention of sports-related injuries, and rehabilitation. Students will also explore medical and allied health care careers. This course is a good introduction for students who are interested in a career in sports medicine athletic training, health and wellness, and physical therapy, and applies to any student interested in discovering the inner workings of the human organism.

Grades: 10-12
Prerequisites: Biology and Chemistry (or concurrent enrollment in a chemistry course)
Credit: 1 credit, 2 semesters
* This is a JTED class

Sports Medicine Internship (2018-19)
Introduction to Engineering Design #4602
Engineering Design introduces aspects of problem solving, logic and relationships. This course emphasizes problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software. Topics explored include various technology systems, manufacturing processes, and how technological advances affect society. Students are introduced to the scope, rigor, and discipline of engineering and encouraged to integrate math and science technologies into engineering problem solving processes. (Credit through Pima Community College is available – see instructor).

Grades: 9-12
Prerequisite: None
Credit: 1 credit, 2 semesters
* This is a JTED class

Digital Electronics #4603
Digital Electronics examines the logic applied to electronic circuits and devices in conjunction with biotechnical engineering problems. Testing and designing digital circuitry with computer simulation software will introduce students to how circuits and devices are constructed. Relevant projects in the area of engineering enable students to experience the logic, rigor, and discipline of integrating math and science skills into engineering problems. Activities are designed to help students synthesize and construct knowledge as applied to solve and resolve problems within the scope of engineering.

Grades: 10-12
Prerequisite: Introduction to Engineering Design
Credit: 1 credit, 2 semesters
* This is a JTED class

Principles of Engineering #4604
Principles of Engineering is a course designed to integrate math and science skills into engineering/engineering technology. Students will gain an understanding of the intricacies associated with technology systems and engineering problem solving. Students will learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people and solve real world problems. Students will engage in hands-on, real-world projects, to gain an appreciation for social and political consequences of technological change. This course emphasizes the relevancy of math and science skills.

Grades: 10-12
Prerequisite: Introduction to Engineering Design
Credit: 1 credit, 2 semesters
* This is a JTED class

Engineering Design and Development / UA Engineering 102
Engineering Design and Development is a research course that offers an opportunity for advanced students to research, design, and construct solutions to open-ended engineering problems. Students will work in research teams to collect and analyze data relevant to their project. In an effort to develop additional workplace skills, community mentors will be provided for each team to guide their problem-solving process. Progress reports, data analysis, and a final written report will be presented. This course is designed for the advanced student planning a career in engineering. (Interested/Eligible students may earn credit for UA Engineering 102*. See instructor for information.)

Grade: 12
Prerequisite: Digital Electronics and Principles of Engineering, or teacher approval
Co-requisite for UA Engineering 102: Precalculus or AP Calculus AB or BC
Credit: 1 credit, 2 semesters
* This is a JTED class

Career Exploration and Technology (CET) #7500
CET is a one-year course that provides students with career exploration and skills needed for success in the 21st century. The course will focus on interactive communication, problem solving, decision-making, critical thinking skills, ethics, and the legal responsibilities associated with school and the work setting. Digital-Age literacy skills will be demonstrated through computer-based activities and knowledge of technological and organizational systems. Units will include computer basics, word processing, spreadsheets, desktop publishing, computer simulations, video production, and media presentations. Students will use computer applications and the Internet for assignments and projects. The course will provide employability, career, and post-secondary transition skills.

Grades 9-10
Prerequisite: None
Credit: 1 credit, 2 semesters

Science ~ Engineering Pathway
Introduction to Engineering Design
Principles of Engineering
Digital Electronics
Engineering Design and Development

Career Exploration and Technology (CET)