



FAIRMONT
PREPARATORY ACADEMY



DISCOVER
the **FAIRMONT PREP** *Difference*

*Course listings are subject to change.

Welcome to
FAIRMONT PREP

Welcome to a high school experience that is truly unique in providing multiple high-level academic specializations while also providing a wide variety of sports, arts, and extracurricular activities for students to explore. Fairmont Prep offers small school benefits with large school opportunities.



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Academic Policies

High School Graduation Requirements

Fairmont students must complete a total of 230 credits as well as a combination of specific core subjects and electives in order to graduate. All students must complete 20 hours of required community service per year of attendance at Fairmont to complete graduation requirements. The graduation requirements listed here, along with elective courses, meet or exceed minimum University of California admission requirements.

SUBJECT	NUMBER OF YEARS	CREDITS
Social Science/History (must include World History or Geography, U.S. History, and Economics/Government are required. AP Economics or AP Government can be substituted for Economics CP/Government CP.)	3 years	30 credits
English	4 years	40 credits
Math (minimum of Algebra II/Trigonometry. 4 years recommended)	3 years	30 credits
Science (must include Biology and either Chemistry or Physics)	3 years	30 credits
World Languages/Language Other than English (must be completed through Level II. Students with an I-20 are exempt. However, students who have studied in the U.S. for four or more years are strongly encouraged to demonstrate proficiency in a second language)	2 years	20 credits
Visual & Performing Arts (one year of the same course/discipline)	1 years	10 credits
Physical Education (All 9th graders are required to enroll in a Physical Education (PE) course. Participation in CIF sports can also fulfill the PE credit requirement. One season of CIF sports is equivalent to one semester of PE)	4 semesters	5 credits
Health	1 course	5 credits
Strategies for Success (All 9th grade students are required to enroll in Strategies for Success unless waived by participation in ASEP or ABP)	1 semester	5 credits
Electives		40 credits

Grade Point Averages

The Fairmont Grade Point Averages (GPAs) are calculated by dividing the total number of units earned in a semester, into the total number of grade points earned that semester (grade points x credits + grade points x credits / total number of credits). This excludes P.E., CIF sports, ASB, contract sports, and pass/fail classes.

Academic Policies

Eligibility Grade Point Averages

Fairmont uses the California Interscholastic Federation (CIF) grade point average scale to evaluate academic eligibility for athletic and extracurricular participation. CIF is the governing body of high school athletics in Southern California and sets standards to determine academic eligibility of high school athletes. The grade point average includes all classes that receive letter grades A-F and is unweighted. The GPA reported on semester report cards and transcripts is calculated by the Fairmont GPA, not the eligibility GPA.

Grading Scales

- Honors (H) & Advanced Placement (AP) classes are considered weighted courses and will receive an additional 1.00 point bump on the GPA scale.
- Grade of F will not receive a GPA bump at the honors level

Honors Credit for Grade Point Averages and UC Course Approval

Fairmont offers a wide variety of honors level courses. Although Fairmont will honor an additional point for honors level courses in grade point average calculations, college and universities may choose only select honors level courses for college/university grade point average calculations. Please visit the UC website for the most current UC approvals and honors credit.

The symbol (*) indicates the course has received UC a-g approval at the time the course catalog went to print. The symbol (**) indicates the course has received UC a-g Honors approval at the time the course catalog went to print.

GRADE	%	UNWEIGHTED (COLLEGE PREP)	WEIGHTED (HONORS & AP)	ELIGIBILITY GPA (CIF)
A+	100-98	4.30	5.00	4.00
A	97-93	4.00	5.00	4.00
A-	92-90	3.70	4.70	4.00
B+	89-87	3.30	4.30	3.00
B	86-83	3.00	4.00	3.00
B-	82-80	2.70	3.70	3.00
C+	79-77	2.30	3.30	2.00
C	76-73	2.00	3.00	2.00
C-	72-70	1.70	2.70	2.00
D+	69-67	1.30	2.30	1.00
D	66-63	1.00	2.00	1.00
D-	62-60	0.70	1.70	1.00
F	59-00	0.00	0.00	0.00

Academic Policies

Grading

- Grades for any course of instruction shall be determined by the teacher.
- Teachers will have updated grades for students every week so students may keep track of their progress.
- Once a semester grade is submitted, it becomes a permanent addition to the student's transcript and will not be altered by title or grade except to rectify an error, as determined by the Department Chair and Head of School.
- In a rare case that a grade needs to be changed, each will be considered on a case-by-case basis.
- Students, parents/guardians will have two weeks after the quarter/semester grade has been posted to challenge the assigned grade. These inquiries should be addressed to the student's counselor.
- A grade change form stating the reason for grade change recommendation signed by the teacher and by the Head of School will be the only document accepted to make any grade change.
- After the two-week grace period, all grades are final.
- Students who are moved from a higher level course to CP after a semester grading period will not receive a grade higher or course title change for the recorded semester.
- AP exam scores will not have an impact on recorded grades for the respective courses.

Remediation Grades (Credit Recovery)

When a student receives a grade of D (D+, D, D-) or F in a course required for graduation, the course must be retaken, either in summer school or in the traditional year. Both grades will appear on the student's transcript. The new passing grade will be the only grade reflected in the grade point average. This only applies to courses taken within Fairmont.

Summer Courses

Certain courses may be taken in summer school to earn advancement credit. Advancement courses must be taken at Fairmont. Credit recovery courses taken outside of Fairmont must be pre-approved by the Department Chair and must conform to the standards outlined by the department in order for credit to be earned. Approved courses taken outside of Fairmont will receive credit, but the grade will not be factored into the student's grade point average.

Coursework Taken Outside of Fairmont

- Courses taken for academic credit outside of Fairmont must be approved by the Department Chair and Head of School prior to registration for that class.
- Courses not offered by Fairmont may be taken outside of Fairmont and may receive credit if approved prior to course registration, but the grade will not be factored into the student's grade point average and will only be reported on Fairmont's transcript if the class is fulfilling a graduation requirement.
- GPAs are issued for coursework completed at Fairmont only.
- High School courses taken at Fairmont's San Juan Capistrano Campus are included in the Fairmont GPA calculation.

Academic Policies

Class Rank Policy

Fairmont Schools does not rank students. If a college, university or scholarship asks for a class rank on an application, students are encouraged to leave the field blank. If the application cannot be submitted without a class rank, please contact your counselor.

Valedictorian/Salutatorian

Fairmont's valedictorian and salutatorian are determined by the highest weighted GPA in the graduating class. To be eligible, the student must have attended their specific Fairmont high school campus for four consecutive years. In the event that more than one student has achieved an identical GPA, their length of attendance at Fairmont Private Schools is taken into consideration.

Making an Appointment with a Counselor

Every student at Fairmont Schools is assigned an academic and college counselor. Assignments are based on academic program, grade, and/or student last name. Counselors are there to support academically, ensure attendance, track academic progress, and help students find their best college fit.

Fairmont counselors meet individually and with groups of students at least four (4) times a year. Students are also encouraged to make additional appointments by phone or email as needed. Parents/guardians who would like to meet with their child's counselor should call or email for an appointment.

Schedule Changes

Fairmont is pleased to be able to offer a wide variety of programs and courses for our learners. Since selections during registration indicate how many teachers and sections will be needed for a course, and master schedules are developed in the spring prior to the upcoming year, the course registration process allows administrators to plan for optimum academic strength. As a result, schedule changes during the school year are only possible within certain parameters.

All course requests, with appropriate parental and department chair approval, are due by the date provided by the Counseling Department. Students and parents may request a schedule change via their counselor within the first three weeks of each semester. Schedule changes will be honored for the following reasons:

- Graduation requirement needed
- Course was not requested by student (unless course is needed for graduation)
- Prerequisite for the course not met
- Courses already successfully completed and credit earned (i.e. summer school)
- Level up or down into a course if space is available
- Elective change

At no time will counselors make schedule changes for:

- Period preference
- Teacher preference
- To be with peers
- Need to drop or replace a class to improve GPA

To help facilitate course selection, students are encouraged to read the course descriptions, along with the prerequisites as posted in this Course Catalog found on the Fairmont website.

Academic Policies

Placement

All students will be placed in appropriate core courses according to Fairmont's prerequisites, placement exams, teacher recommendations and/or Department Chair approval. Final course approval is subject to Head of School approval.

Level Changes

Students, parents, and teachers may submit a level down request up until the first quarter. These requests will be considered only if space is available in the new class and it does not impact other classes. Students requesting a level down move will be moved into the College Prep (CP) level of the original course, as the master schedule permits, and as approved by the Department Chair. Should a College Prep level counterpart not be offered, students will be permitted to add a Teachers Aide or Academic Prep period. The original course will not show on the transcript and no credit will be awarded.

Language Support Promotion

International students enrolled in Language support classes will take grade level English and the corresponding Writing & Language support class based on their language proficiency. Returning students may promote levels of Language support within the first three weeks of each semester by taking the TOEFL IBT exam. Students must provide their counselor with an official TOEFL IBT test score report to process the program change. New students are required to remain in their original Writing & Language Seminar course for their first semester. After completing the first semester, students may take the TOEFL; however, the TOEFL score must be earned during their time at Fairmont in order to be considered for any course changes or placement updates.

Course Withdrawals

Students requesting a withdrawal after the three-week period at the start of each semester will have the course shown on their transcript with a "W" designation for their semester grade with no credit given. All level and course changes must be made in conjunction with the student's counselor to ensure graduation requirements are being met. The Head of School will be consulted for students withdrawing from a class after the first three weeks of the semester.

Academic Progress Reports

Parents/Guardians are encouraged to monitor their student's progress by using the online grading tools provided by Fairmont. MySchoolApp via Blackbaud is the online tool to monitor grades. Canvas is the learning management system where students and families can obtain classroom information.

Transcripts

Fairmont Schools will provide copies of transcripts at no charge for current students provided the request is made five business days in advance. Transcript requests must be made online via: <https://fairmontca.scribborder.com>. A \$10 fee may apply to all rushed transcripts.

Final Semester Exam and Early/Make-Up Exam Policy

Students are expected to take exams on time, according to the posted schedule. If a student has an excused absence that is verified through the attendance office, they will be offered an opportunity to make-up the exam in the next available exam period. Excused absences are for emergencies or physician-verified illnesses only. Planned activities such as family vacations do not qualify for early or make-up exams, as the schedule is known in advance.

Students with an outstanding balance owed to Fairmont Schools will not be allowed to sit for final exams. All financial obligations must be met prior to sitting for final exams each semester, including athletic fees.

Academic Policies

Class “Incomplete” Policy

Incomplete grades (I) must be completed during the first six weeks of the following semester. Courses not completed will convert to an “F” at the end of the next grading period. Incomplete grades will only be issued by the teacher and Head of School for long term student illness or family tragedy.

Absent Make Up Work Policy

Upon the first day of return from an excused or school sanctioned absence, students must arrange with their teachers to make up tests, quizzes, homework or other activities for that class period. Teachers must work with students to set reasonable deadlines for makeup work no earlier than one day after returning to class and no later than 2 weeks from the return to class after the absence in question.

- Work missed due to suspension and truancy will result in “zero” grade and cannot be made up.
- When a student reaches ten absences (excused or truant) in any given period, they may be placed on an Attendance Contract by the Dean of Students, which may limit activities outside of the classroom, require detentions, and other consequences deemed appropriate. Students will no longer be able to turn in “work” or make-up any tests or quizzes due on the date of the absence..
- Excessive absences due to prolonged health issues or issues related to obtaining a VISA will be evaluated by the Dean of Students on a case by case basis with proper documentation.

Late Work Policy

When a student is present in class but does not turn in the required work during the period, they will have one week to submit the work for partial credit as determined by their teacher. Any exceptions must have prior approval from the Dean of Students in conjunction with the Head of School. Exceptions are approved only for special circumstances

AP Policy

At Fairmont Preparatory Academy, it is our expectation that all students who enroll in Advanced Placement (AP) courses will take the corresponding AP exam. The AP exams are an integral part of the AP program, offering students the opportunity to earn college credit, demonstrate their academic abilities, and further their educational goals.

The school encourages students to take full advantage of the academic rigor and opportunities that these courses provide and recognizes that the AP exam play a key role in measuring the success of these advanced-level classes. By enrolling in an AP course, students and parents/guardians acknowledge the cost associated with and the responsibility to participate in the associated exam.

- The College Board set both the fees for registration and the fees for make-up exams.
- Change fees for AP vary, and all testing costs are the responsibility of the student.
- Payment for AP exams must be made in advance and no refunds will be given.
- Students must register for AP exams by the designated deadlines established by Fairmont and the testing agencies.
- Fairmont limits registration for an AP exam to students enrolled in the corresponding AP course at Fairmont Preparatory Academy. The school recommends that a student sits for no more than five exams during a testing cycle. Due to space limitations, only Fairmont students are allowed to register for AP exams at Fairmont.

Academic Probation Policy

Academic probation status is evaluated four times per year (quarter one, semester one, quarter three, and semester two). A student is placed on academic probation when his/her grade point average falls below a 2.0 (based on an unweighted 4.0 CIF eligibility grade point average scale). While on academic probation, the student is required to meet with their counselor during a mandatory bi-weekly meeting. The student's academic status will be reviewed at the end of the following grade term. If the student improves (CIF Eligibility 2.0+ GPA), the student will be removed from probationary status. Should the student not meet

Academic Policies

the guidelines of their probation, they will be academically ineligible for participation on CIF sports teams. In this event, the student would continue academic probation until the GPA improves to meet CIF eligibility requirements as monitored at each grading period. Continual academic probation and academic ineligibility may lead a student's status to be evaluated by the Academic Review Board. Fairmont counselors work closely with students on academic probation to help them succeed. Parents/guardians are encouraged to set up a counseling appointment to create a plan of action for their student. In addition, students on probation will be required to turn in progress reports, and parents/guardians are required to sign the academic probation contract and return it to the counseling office.

Academic Review Board

The Academic Review Board meets as needed to review and discuss the case of any student on academic probation or attendance contract. A meeting of the board may also be called in certain other cases, related to the academic success of a student.

After reviewing the information presented to them, the Academic Review Board will come to a decision concerning a success plan for the student's academic progress which may include not being invited to return to Fairmont Schools. The decision of the Academic Review Board will be communicated to the student and parents by the Head of School and the student's counselor; this decision may be appealed in writing (within 48 hours of the parent notification) to the Head of School and, if necessary, to the President of Fairmont Schools, only if there are new and previously unknown circumstances.

Cheating and Plagiarism

Cheating and plagiarism will not be tolerated. Fairmont Schools expects that the grades students receive reflect, in the fairest possible way, the academic work they have completed. Academic dishonesty, cheating, or plagiarism will result in a Disciplinary infraction.

Cheating is defined in the following ways:

- Using dishonest, deceptive, or fraudulent means to obtain or attempt to obtain credit for academic work
- Using notes, aids, or the help of other students on tests in ways other than those expressly permitted by the instructor
- Looking at another student's test, answers, or homework
- Copying another student's homework, or allowing another student to copy one's own homework
- Allowing another student to cheat from one's own test or other coursework
- Obtaining answers from the internet
- Receiving help from a tutor, another student, or any other individual or source to produce work or answers or to substantially change the quality or accuracy of academic work. If help is received, it must be acknowledged in writing in the academic work.

Plagiarism is defined in the following ways:

- Taking the specific substance of another's work and offering it as one's own without giving credit to that source
- Not using quotation marks, internal citations, and/or footnotes to denote material that has been directly quoted or paraphrased from another source
- Paraphrasing an author without citing the source
- Remember: using an idea and/or specific wording from someone else's work constitutes plagiarism, even if only a sentence or part of a sentence is used

Always consult with the teacher before using another's work, as each instance will be evaluated by the teacher to determine whether the work submitted truly belongs to the student.

Course Levels

Fairmont’s course offerings provide a variety of pathways for students to follow. Many students choose to take courses from various levels of instruction because this flexibility aligns more closely with their abilities and interests. Our programs for study are as follows:

Adapted Courses

Adapted Classes are course offerings specifically designed with our international students in mind. Adapted classes are a blend of academic coursework and language support. Curriculum and instruction are modified to meet the needs of language learners while still providing them with the academic content needed to better prepare them for collegiate courses in the future. Adapted classes are specialty classes in English, Science, and History. High School classes are credit-bearing and UC approved courses.

College Preparatory— CP

Standard level courses designed to prepare students to succeed in freshman collegiate course work.

Honors— (H)

These courses are more in depth and move at a faster pace than CP courses. They are designed to prepare students to succeed in Advanced Placement, International Baccalaureate, Advanced Business, and Advanced Science and Engineering Programs.

Advanced Placement— AP

These college level courses are advanced and are intended to culminate with the AP exam. If the student scores well on an AP exam, he or she may earn college credits for the course. It is expected that each student who takes an AP course will also take the AP exam for that course.

Specialized Academic Programs Offerings

Language Support Pathway - Fairmont Schools offers specialized preparatory adapted language support coursework and student services to our international students. This pathway allows international students to maximize their time in acquiring their language proficiency while taking the necessary credit-bearing courses they need to graduate.

Advanced Science and Engineering Program (ASEP) - This rigorous program provides students with a solid science and mathematics curriculum providing a foundation for future science and engineering college courses. This advanced program gives students the opportunity to take challenging, college-level courses with a STEM focus, and is designed for students who plan to major in science, engineering or related fields.

Advanced Business Program (ABP) - The Advanced Business Program is an advanced track program geared to prepare motivated students for entry into the global economy, helping them understand business within the context of culture and ethics. Students will learn by doing. Project-based courses will allow students to expedite their learning and earn college credit for some courses and Honors credit for all courses.

Advanced Math Program - Fairmont’s math program rivals those of top math and science schools across the country and allows students to take college level math courses rarely offered in high school. The program provides a highly individualized approach to math education, allowing students of all abilities to receive the customized instruction they need to achieve their highest potential in high school courses and on important college entrance exams.

Social Science/History

UC Subject Area “A”

Social Science Department Student Learning Outcomes:

- Students will develop critical thinking skills through the study of human experience by utilizing and applying the Social, Political, Religious, Intellectual, Technological, Economics (SPRITE) or similar analytical tools.
- Students will demonstrate the ability to write effectively through the application of critical thinking skills such as compare and contrast, cause and effect, argumentation, synthesis, continuity and change over time and conceptualization
- Students will demonstrate their ability to read and analyze a variety of texts, source materials and media such as charts, graphs, maps, images, audio and video, and primary and secondary sources
- Students will reflect upon their learning to apply what they have learned to the real world and make it relevant to the culture in which they live and foster the recognition of the diversity of other cultures.
- Students will make connections among the various historical eras and recognize thematic similarities and differences.
- Students will engage in discussion of current events and challenging topics with maturity and openness while recognizing that multiple perspectives exist.
- Students will be encouraged to be self motivated, intellectually curious learners who will also be able to work collaboratively.

SOC4143: AP Human Geography**

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisite: Concurrent enrollment in English CP or (H) and/or departmental approval

This college level course prepares students for the examination in Human Geography. AP Human Geography introduces students to the study of geography, and the patterns and processes by which humans have settled and altered the Earth’s surface. Students will examine the landscape and changes to the environment that have been caused by human settlement. Students will study the methods and tools used by geographers such as maps, charts, and other data.

SOC4015: World History*

5 credits per semester, yearlong course

Grade level: 9th – 12th

Corequisite: Enrollment in Language Support Level 3 and Writing & Language Seminar Foundation

The histories, cultures, and religions of the world are studied, fostering an understanding of the underlying similarities among all human beings. This adapted course highlights the nature of change in an international framework by comparing the historical development of major societies. Language support students will develop reading and critical thinking skills and strengthen their writing skills through a variety of writing assignments and projects.

SOC4014: World History CP*

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisite: None

The histories, cultures, and religions of the world are studied, fostering an understanding of the underlying similarities among all human beings. The course highlights the nature of change in an international framework by comparing the historical development of major societies. Students will develop reading and critical thinking skills and strengthen their writing skills through a variety of writing assignments and projects.

Social Science/History

SOC4013: AP World History**

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisite: Concurrent enrollment in English CP or (H) and/or departmental approval

This college level course prepares students for the Advanced Placement examination in World History. The course is designed to develop greater understanding of the evolution of global processes and contacts through interaction between human societies. College-level reading and writing skills are strengthened; approaching history in a thematic way encourages students to think critically, organize comparisons, and analyze change and continuity over time.

SOC4031: U.S. History CP*

5 credits per semester, yearlong course

Grade level: 11th

Prerequisite: None

Students examine the main elements of the American experience: starting with the Reconstruction Era. The transformation of the nation towards industrialism, the changing nature of business and government, through the development of twentieth century America to the present. Historical analysis and essay writing are important features of this course.

SOC4032: U.S. History (H)**

5 credits per semester, yearlong course

Grade level: 11th

Prerequisite: Concurrent enrollment in CP or AP English and/or departmental approval

Students enrolled in U.S. History (H) will study the political, economic, social, and cultural development of the United States from the Civil War to the present. Topics covered include the Civil War, Reconstruction, Native American culture and western settlement, industrialization, the Progressive Era, World War I, the 1920s, the New Deal, and World War II. The course will also examine domestic, social, and foreign policy issues of the post-World War II period, from the 1950s to the present, including reform movements, the Vietnam War, the Civil Rights Movement and other ethnic movements, the Feminist Movement, popular culture, and post-Cold War foreign policy. The course will conclude with an exploration of the challenges of the 21st century. Students will be challenged to think and write critically about historical events, their impact, and connections to current events.

SOC4034: AP United States History**

5 credits per semester, yearlong course

Grade level: 11th

Prerequisite: Concurrent enrollment in CP or AP English and/or departmental approval

This course will help prepare students to take the AP United States History exam in the spring. Students will study important events, people, and processes from pre-Columbian history to the present. This course requires extensive reading of primary and secondary sources and requires students to write analytical essays. Students will analyze historical sources, learn to make connections, and develop historical arguments through the study of eight AP themes in different times and places.

SOC4231: U.S. Government CP*

5 credits per semester, one semester course

Grade level: 12th

Prerequisite: U.S. History CP

Students examine the main elements of the American experience: colonial life, the Revolution, the constitutional system, the development of capitalism and democracy, Civil War, the impact of the frontier, the changing nature of business and government, and the development of 20th century America. Major Supreme Court cases are investigated and analyzed. Historical analysis and essay writing are important features of this course.

SOC4233: AP Government and Politics: United States**

5 credits per semester, yearlong course

Grade level: 12th

Prerequisite: Concurrent enrollment in CP or AP English and/or departmental approval

Students examine the foundations, evolution, and features of our modern American government on the federal, state, and local levels. The course balances political theory and ideology with historical and modern-day political dilemmas. Students develop critical thinking skills and, through this practice, realize the relevance of political awareness and action. Specific attention is given to the individual functions of separate government branches, and philosophical and political motivations behind their origins. Supreme Court cases, roles of special interest groups, media, and opinion polls are addressed and analyzed. This course will prepare students for the AP US government exam in May.

* indicates the course is UC “a-g” approved

** indicates the course is UC “a-g” approved with honors designation

* indicates the course is UC “a-g” approved

** indicates the course is UC “a-g” approved with honors designation

Social Science/History

SOC4131: Economics CP*

5 credits per semester, one semester course

Grade level: 12th

Prerequisite: U.S. History CP

Note: This course is approved as a UC a-g “G” elective

This course expands students’ understanding of economic problems of national and world institutions. Students are encouraged to make reasoned decisions on economic issues as citizens, workers, consumers, entrepreneurs and members of civic groups. It combines grounding in economic principle and theory with realistic scenarios and current events. Emphasis is given to the application of course content to case studies and the role and impact of government in economics

SOC4144: AP Macroeconomics**

5 credits per semester, yearlong course

Grade level: 11th* - 12th*/*ABP Only

Prerequisite: Departmental approval

Note: This course is approved as a UC a-g “G” elective

This course prepares students to take the AP Macroeconomics exam. The course facilitates students’ understanding of the economic problems and institutions of the nation and the world. A particularly strong emphasis is given to study and analyze the role of government in economics, monetary and fiscal growth, different types of inflation and methods of addressing it, the rise of the global economy and problems and benefits of international trade. Students write several analytical essays, research papers, and class presentations.

SOC4144: AP Microeconomics**

Exclusive Advanced Business Program Course

5 credits per semester, yearlong course

Grade level: 12th

Prerequisite: AP Macroeconomics

Note: This course is approved as a UC a-g “G” elective

AP Microeconomics is an introductory college-level microeconomics course. Students cultivate their understanding of the principles that apply to the functions of individual economic decision-makers by using principles and models to describe economic situations and predict and explain outcomes with graphs, charts, and data as they explore concepts like scarcity and markets; costs, benefits, and marginal analysis; production choices and behavior; and market inefficiency and public policy.

SOC4334: AP Psychology**

5 credits per semester, yearlong course

Grade level: 10th* ASEP only, 11th - 12th

Prerequisite: Concurrent enrollment in CP and/or departmental approval

Note: This course is approved as a UC a-g “G” elective

This course introduces students to the systematic and scientific study of psychology, with an emphasis on the behaviors and mental processes of human beings. Students are exposed to psychological facts, principles and phenomena associated with each of the major sub-fields within psychology. Students also learn about methods psychologists use in their science and practice, as well as the history of psychology and its influence and application in contemporary society. This course will prepare students to take the AP Psychology exam.

SOC4333: Foundations of Criminal Justice and Law CP*

5 credits per semester, one semester course

Grade level: 10th - 12th

Prerequisite: None

Note: This course is approved as a UC a-g “G” elective

Foundations of Criminal Justice and Law provides students with an overview of the criminal and juvenile justice systems. Students will learn how and why the criminal justice system functions. Students will explore diverse areas of criminal law, constitutional and civil rights, and how the system functions for adults and juveniles. Students will apply critical thinking and problem solving techniques by researching historical and political causes for legal issues and present on findings to essential questions, work in teams to analyze, reason, negotiate and develop questions for further study. Students will examine how the U.S. legal system compares with legal and political systems, philosophies, and practices of other countries. Students will learn about advocacy and policy by researching how individuals and groups, including young people, can take action to reform our legal system.

Social Science/History

SOC4145: Introduction to Personal Finance CP*

5 credits per semester, one semester course

Grade level: 10th - 12th

Prerequisite: None

Note: This course is approved as a UC a-g “G” elective

This course will inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets utilizing checking and saving accounts, gain knowledge in finance, debt and credit management, and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions leading to financial independence.

* indicates the course is UC “a-g” approved

** indicates the course is UC “a-g” approved with honors designation

* indicates the course is UC “a-g” approved

** indicates the course is UC “a-g” approved with honors designation

English

UC Subject Area “B”

English Department Student Learning Outcomes:

- Reading: Students will comprehend, interpret, analyze, and evaluate a wide range and level of complex texts across genres, recognizing the impact of linguistic, literary, and rhetorical elements.
- Writing: Students will produce clear, correct, and coherent writing for a range of tasks, purposes, and audiences to convey complex ideas and sentiments effectively.
- Speaking: Students will engage in diverse forms of oral communication coherently articulating ideas, appealing to audience, and utilizing appropriate technology and media to enhance impact.
- Listening: Students will comprehend and interpret the spoken communication of others in a variety of forms and contexts.
- English Language Development (English Language Support): Students will engage in strategies and habits that encourage ongoing language acquisition and increased fluency in a variety of contexts.

ENG1110: Writing & Language Seminar Foundation

Grade level: 9th - 12th

5 credits per semester, yearlong course

Corequisite: Enrollment in Language Support Level 3, iTEP

SLATE score 2.2 - 4.4, TOEFL IBT Score 35 - 49

This blended learning course will focus on writing, grammar, and vocabulary. The course will also incorporate listening and speaking into daily activities to further develop students' overall communicative skills. The course is designed to equip students with effective writing skills and academic vocabulary, while also incorporating grammatical aspects to reinforce students' composition skills. Students will learn to write in an organized, developed, and focused way for a variety of academic purposes from paragraphs to essays. Students will expand and acquire new vocabulary, be able to identify various modes of composition, and gain an understanding and appreciation for the writing process, as well as the connection between reading and writing. This course will provide students with the tools to become effective writers for both academic and personal growth.

ENG1111: Writing & Language Seminar I

Grade level: 9th - 12th

5 credits per semester, yearlong course

Corequisite: Enrollment in Language Support Level 2, iTEP

SLATE score 4.5 - 4.9, TOEFL IBT Score 50-59

This course is for English Learners who can function at a basic level in English-speaking academic, social, and domestic settings so as to communicate in English with teachers, staff, classmates, textbooks, digital resources, community members, Fairmont housing staff, and peers as they begin to develop their ability to succeed in a college-preparatory academic program.

The curriculum focuses on reading, writing, listening, speaking, critical thinking, and academic skills necessary for success in the college-preparatory high school program. By the end of the course, students will be able to describe aspects of their background, immediate environment, and academic studies. They will possess a repertoire of basic language to engage in sheltered academic situations with predictable content. Students will correctly use simple grammatical forms and mechanics as a habit, and will independently self-edit errors given the opportunity to revise. Students will have sufficient vocabulary to conduct themselves in academic and personal settings with some assistance. They will be able to engage in basic oral communication in English with the adults and peers in their classes and homes.

English

ENG1112: Writing & Language Seminar II

Grade level: 9th - 12th

5 credits per semester, yearlong course

Corequisite: Enrollment in Language Support Level 2, iTEP

SLATE score 5.0 - 5.2, TOEFL IBT Score 60 - 69

This course is for intermediate English Learners who can function with some support in English-speaking academic, social, and domestic settings so as to communicate effectively in English with teachers, staff, classmates, textbooks, digital resources, community members, Fairmont housing staff, and peers.

The curriculum focuses on increasing reading, writing, listening, speaking, critical thinking, and academic skills necessary for success in the college-preparatory high school program. Students will possess a repertoire of academic and practical vocabulary and language to function in standard academic and social situations in the past, present, and future tenses. Students will use a variety of intermediate grammar and mechanics with moderate accuracy as a habit, and will independently self-edit errors given the opportunity to revise. Students will have adequate vocabulary to be independent in academic and personal settings with minimal support. They will be able to communicate orally with others using adequate pronunciation and flow.

ENG1113: Writing & Language Seminar III

Grade level: 9th - 12th

5 credits per semester, yearlong course

Corequisite: Enrollment in Language Support Level 2, iTEP

SLATE score 5.3 - 5.5, TOEFL IBT Score 70 - 89

This course is for high-intermediate/early-advanced English Learners who can function independently in English-speaking academic, social, and domestic settings so as to successfully interact in English with teachers, staff, classmates, textbooks, digital resources, community members, Fairmont housing staff, and peers.

The curriculum focuses on reading, writing, listening, speaking, critical thinking, and academic skills necessary for success in the college-preparatory high school program. By the end of the course, students will be able to communicate directly and accurately in regard to academic, domestic, personal, communal, and global topics. They will make use of a repertoire of advancing vocabulary and nuanced language techniques to engage in grade-level academic content and social/domestic situations. Students will correctly use complex verb forms, sentence structure, and mechanics with reasonable accuracy as a habit, and will independently self-edit errors given the opportunity to revise. Students will make use of specific and accurate vocabulary to communicate effectively in grade-level

academics and a broadening range of functional settings. They will speak with fluency and pronunciation that is appropriate in rhythm and inflection and is understandable to those with whom they need to communicate.

ENG1006A: English I*

Grade level: 9th

5 credits per semester, yearlong course

Corequisite: Concurrent Enrollment in a Writing & Language Seminar class

English I explores the foundations of literary genres and essay composition skills. Areas of focus are reading to comprehend, fluency of written and spoken expression, essay structure, and accurate use of grammar, punctuation, and spelling. Students also develop oral and written skills in their study of the elements of literature.

ENG1006B: English II*

Grade level: 10th

5 credits per semester, yearlong course

Corequisite: Concurrent Enrollment in a Writing & Language Seminar class

English II immerses students in a diverse selection of classic and contemporary literature and develops their language and composition skills. Students will evaluate influential and representative literary and informational texts, and produce writing that reflects a thoughtful understanding of others' and their own ideas using correct and precise language. Participation, discussion, presentations, and utilization of technology are also required.

ENG1006C: English III*

Grade level: 11th

5 credits per semester, yearlong course

Corequisite: Concurrent Enrollment in a Writing & Language Seminar class

English III explores American literature through a variety of genres and develops students' academic writing skills with an emphasis on narrative, expository, analysis, and argumentative essays. Students use and develop their understanding of the fundamentals of American history and culture in their analysis of the literature. Students examine key themes of the American experience such as the promise of the frontier, freedom and slavery, the possibilities and problems of self-definition, and the meaning of success. Students will study American literature spanning early Native American writers through contemporary authors. Class discussion, small- and large-group work, and presentations are also required.

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English

ENG1006D: English IV*

5 credits per semester, yearlong course
Grade level: 12th
Corequisite: Concurrent Enrollment in a Writing & Language Seminar class

English IV explores world literature with an emphasis on globally-relevant issues. Literary appreciation and composition skills are refined with special attention toward language, reading, and expository writing skills necessary in academic and professional realms beyond high school.

ENG1011: English I CP*

5 credits per semester, yearlong course
Grade level: 9th
Prerequisite: Successful completion of 8th grade English and Literature, International students must have a minimum TOEFL IBT score of 90 or iTEP SLATE score of 5.6 or higher

English I CP will explore the literary genres of novel, drama, short story, poetry, and non-fiction, and will build written and oral language and writing skills. Areas of focus are reading comprehension, fluency of written and spoken expression, developing critical thinking skills, participating in academic discussions, essay structure, and accurate use of grammar, punctuation, and spelling. Students will learn to appreciate the artistry of literature and to develop an ability to reflect critically on their reading. Works are studied in their literary and cultural contexts, through close study of individual texts and passages, and by considering a range of critical approaches.

ENG1026: English II CP*

5 credits per semester, yearlong course
Grade level: 10th
Prerequisite: Successful completion English I CP, International students must have a minimum TOEFL IBT score of 90 or iTEP SLATE score of 5.6 or higher

English II CP immerses students in a diverse selection of classic and contemporary literature, and sharpens their language and composition skills. Critical analysis and effective expression are the emphases as students study and produce pieces in a variety of genres. Students will evaluate influential and representative literary and informational texts, and produce writing that reflects a thoughtful understanding of others' and their own ideas using correct and precise language. Participation, discussion, presentations, and utilization of technology are also required.

ENG1031: English III CP*

Grade level: 11th
5 credits per semester, yearlong course
Prerequisite: Successful completion English II CP, International students must have a minimum TOEFL IBT score of 90 or iTEP SLATE score of 5.6 or higher

English III CP explores American literature through a variety of genres and develops students' academic writing skills with an emphasis on rhetorical and literary analysis, evidence-based argumentation, and narrative. Students use and develop their understanding of the fundamentals of American history and culture in their analysis of the literature. Students examine key themes of the American experience such as American ideals, identity, the immigrant experience, civil rights, and the meaning of success. Students will study American literature spanning early American writers through contemporary authors. Class discussion, small- and large-group work, and presentations are also required.

ENG1041: English IV CP*

5 credits per semester, yearlong course
Grade level: 12th
Prerequisite: Successful completion English III CP, International students must have a minimum TOEFL IBT score of 90 or iTEP SLATE score of 5.6 or higher

English IV CP is a year-long literature course with an added emphasis on academic writing. Students will explore a variety of literary genres while sharpening their writing skills and finding their unique voice. Students will create complex literary analysis, conduct research, and write both fiction and nonfiction with a variety of patterns of development.

ENG1012: English I (H)*

5 credits per semester, yearlong course
Grade level: 9th
Prerequisite: B+ or higher in English 8 and Honors Literature, or placement test score, writing review and/or Teacher/Department Chair recommendation

Honors sections of English challenge students with increased length, frequency, complexity, and depth of reading and writing studies. They require mastery in the preceding courses as well as strong critical thinking skills, motivation, academic independence, and work ethic. This course aims to prepare students for AP and IB opportunities offered in junior and senior year. English I (H) will explore the literary genres of novel, drama, short story, poetry, and non-fiction, and will aim to build language and writing skills. Areas of focus will be reading to comprehend, developing fluency of

English

written expression, structure of the essay, and accurate use of grammar, punctuation, and spelling. Students will learn to appreciate the artistry of literature and to develop an ability to reflect critically on their reading. Works are studied in their literary and cultural contexts, through close study of individual texts and passages, and by considering a range of critical approaches. The response to the study of literature is through oral and written communication, thus enabling students to develop and refine their command of language.

ENG1027: English II (H)**

5 credits per semester, yearlong course
Grade level: 10th
Prerequisite: B+ or higher in English I (H) and/or Teacher/Department Chair recommendation

Honors sections of English challenge students with increased length, frequency, complexity, and depth of reading and writing studies. They require mastery in the preceding courses as well as strong critical thinking skills, motivation, academic independence, and work ethic. This course aims to prepare students for AP and IB opportunities offered in junior and senior year. English II (H) immerses students in a diverse selection of classic and contemporary literature and sharpens their language and composition skills. Critical analysis and effective expression are the emphases as students study and produce pieces in a variety of genres. Students will evaluate influential and representative literary and informational texts, and produce writing that reflects thoughtful understanding of others' and their own ideas using precise and effective language. Oral assessment is an integral part of this course.

ENG1048: AP English Language and Composition**

5 credits per semester, yearlong course
Grade level: 11th – 12th
Prerequisite: B+ or higher in English II (H) or AP English Literature or Teacher/Department Chair recommendation

An AP course in English Language and Composition engages students in becoming skilled readers of primarily nonfiction prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. 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 genre conventions and the resources of language contribute to effective writing. Students also need to apply their critical reading and understanding of rhetoric by participating in collaborative discussions and giving effective presentations using various forms of media and research.

ENG1044: AP English Literature and Composition**

5 credits per semester, yearlong course
Grade level: 11th – 12th
Prerequisite: B+ or higher in English II (H) or AP English Language or Teacher/Department Chair recommendation

This college-level course aims to prepare students for the rigors of college literature and writing courses, and for Advanced Placement Literature and Composition exam. Students intensively study texts in translation and in English from a variety of eras as they prepare for written literary analysis examinations in May. This course is writing-intensive and focuses as much on writing and constructing analytical arguments as it does on studying the rhetorical strategies.

ENG1090: AP Seminar**

5 credits per semester, yearlong course
Grade level: 10th
Prerequisite: B+ or higher in English I (H) and/or Teacher/Department Chair recommendation

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. Students learn to investigate a problem or issue, analyze arguments, compare different perspectives, synthesize information from multiple sources, and work alone and in a group to communicate their ideas.

ENG1091: AP Research**

5 credits per semester, yearlong course
Grade level: 11th – 12th
Prerequisite: Successful completion of AP Seminar

AP Research, the second course in the AP Capstone™ experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest.

Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio.

The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

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Mathematics

UC Subject Area “C”

Math Department Student Learning Outcomes:

- Students will develop an understanding of the principles and nature of mathematics
- Students will communicate clearly and confidently in a variety of contexts
- Students will develop logical, critical and creative thinking, and patience and persistence in problem-solving
- Students will employ and refine their powers of abstraction and generalization
- Students will apply and transfer skills to alternative situations, to other areas of knowledge and to future developments
- Students will put forth a sincere effort made evident by consistent attendance, attentiveness in class, assignment completion, and preparation for all assessments.

MTH2011: Algebra I CP*

5 credits per semester, yearlong course
Prerequisite: C- or above in Pre-Algebra

This course is a comprehensive start to high school mathematics. It presents basic properties involving numbers, variables, and equations. Simplifying rational expressions and solving equations are covered as well as exposure to inequalities, polynomials, graphing linear equations, factoring, solving linear systems, functions, exponents and radicals. Problem solving applications are stressed.

MTH2021: Geometry CP*

5 credits per semester, yearlong course
Prerequisite: C- or above in Algebra I CP

This course is designed to explore the concepts of geometry. Topics include reasoning and proofs; parallel and perpendicular lines; transformations; relationships with triangles; quadrilaterals and other polygons; similarity; circles; trigonometry; circumference, area, and volume.

MTH2022: Geometry (H)*

5 credits per semester, yearlong course
Prerequisite: A in Algebra I CP

This honors level course is designed to explore the concepts of geometry at an advanced level. Topics include reasoning and proofs; parallel and perpendicular lines; transformations; relationships with triangles; quadrilaterals and other polygons; similarity; circles; trigonometry; circumference, area, and volume.

MTH2034: Algebra II/Trigonometry CP*

5 credits per semester, yearlong course
Prerequisite: C- or above in Geometry CP

This is a course in intermediate algebra that includes reinforcement of topics covered in Algebra I, such as solving equations and inequalities, graphing linear equations, and solving linear systems of equations. The course extends to functions, complex numbers, quadratic equations, polynomials, conic sections, exponential equations, logarithmic equations, trigonometric functions, graphing trigonometric functions, and proving trigonometric identities. Graphing calculators are introduced.

Mathematics

MTH2032: Algebra II/ Trigonometry (H)*

5 credits per semester, yearlong course
Prerequisite: A in Geometry CP or B or above in Geometry (H)

This is a course in intermediate algebra and trigonometry in preparation for further advanced study of mathematics. The course includes reinforcement of concepts covered in Algebra I, such as numerical set/properties, solving equations/inequalities, graphing linear equations, and solving linear systems of equations. The course extends to functions, complex/imaginary numbers, quadratic equations/graphs, polynomials, conic sections, exponential and logarithmic equations, and sequences/series. This course concludes with a comprehensive analysis of trigonometry, including trigonometric functions, graphing trigonometric functions, proving trigonometric identities, and problem solving techniques. Graphing calculators are introduced and used as a method of analysis.

MTH2042: Precalculus CP*

5 credits per semester, yearlong course
Prerequisite: C- or above in Algebra II/Trigonometry CP or (H)

The course covers traditional Precalculus topics including linear and quadratic functions, polynomial and rational functions, trigonometry, trigonometric identities and equations, conic sections, exponential and logarithmic functions, and an introduction to calculus.

MTH2053: Precalculus (H)**

5 credits per semester, yearlong course
Prerequisite: B or above in Algebra II/Trigonometry (H)
Note: Summer class only

This is an honors level Precalculus course that prepares students for AP Calculus. The course covers traditional Precalculus topics including linear and quadratic functions, polynomial and rational functions, trigonometry, trigonometric identities and equations, the conic sections, exponential and logarithmic functions, and an introduction to calculus. An emphasis is placed on higher-level thinking in addition to the mastering of basic skills.

MTH2045: AP Precalculus**

5 credits per semester, yearlong course
Prerequisite: B or above in Algebra II/Trigonometry (H)

In AP Precalculus, students explore everyday situations using mathematical tools and lenses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. They will learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever-changing world.

AP Precalculus prepares students for other higher-level mathematics and science courses. The framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science.

MTH2086: Calculus CP*

5 credits per semester, yearlong course
Prerequisite: C- or above in Precalculus CP, (H) or AP Precalculus

Topics which will be covered in Calculus CP include limits, derivatives, definite integrals, indefinite integrals, and applications of these topics. Topics will be explored graphically, numerically, algebraically, and verbally. Subtopics include products, quotients, and the calculus of logarithmic functions, growth and decay, plane and solid figures, algebraic calculus of motion. A graphing calculator will be used regularly to explore, to find x-intercepts and other intersection points, to find the derivative at a given x-value, to find definite integral, and to support conclusions.

MTH2060: AP Calculus AB**

5 credits per semester, yearlong course
Prerequisite: B or better in Precalculus (H) or a B or better in Math Applications or an A in Precalculus CP

This course covers all the material on the AP Calculus AB test and emphasizes higher-level thinking in addition to learning basic skills. A brief review of trigonometry and pre-calculus leads to an in-depth analysis of limits, derivatives, differentiation techniques, curve sketching, integrals, integration techniques, the calculus of transcendental functions, and the applications therein. The course is not designed solely for success on the AP exam. It is a comprehensive study of calculus which gives students a strong understanding and background for future success in science, engineering, or mathematics.

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Mathematics

MTH2061: AP Calculus BC**

5 credits per semester, yearlong course

Prerequisite: A in Precalculus (H) or B or better in AP Calculus AB

This course is a rigorous, accelerated calculus course that satisfies both the AP Calculus AB and BC curriculum requirements in one year. Topics will include limits, differentiation, and integration, volume of revolution, convergent / divergent series, Taylor Polynomials, parametric equations, polar coordinates, and applications. The course is not designed solely for success on the AP exam. It is a comprehensive study of calculus which gives students a strong understanding and background for future success in science, engineering, or mathematics.

MTH2047: Statistics CP*

5 credits per semester, yearlong course

Prerequisite: B or above in Algebra II/Trigonometry CP, Algebra II/Trigonometry (H)

This is an introductory statistics course that focuses on data and statistical reasoning. Topics covered include data organization (distributions, density curves, the normal distribution, correlation, and least squares regression), data production (census, survey, experiment, observational study), probability (models, random variables, binomial and geometric distributions), and inference (tests of significance, means and proportions, chi-square procedures). Graphing techniques will include stem plots, histograms, cumulative frequency plots, box plots, and scatter plots.

MTH2046: AP Statistics**

5 credits per semester, yearlong course

Prerequisite: B or above in Algebra II/Trigonometry (H) or B or above in Precalculus (H) or AP Precalculus

This is a college level course in introductory statistics that focuses on data and statistical reasoning. Topics covered include data organization (distributions, density curves, normal distribution, correlation, and least squares regression), data production (census, survey, experiment, observational study), probability (models, random variables, binomial and geometric distributions), and inference (tests of significance, means and proportions, chi-square procedures). Graphing techniques include stem plots, histograms, cumulative frequency plots, box plots, and scatter plots.

MTH2062: Multivariable Calculus (H)**

5 credits per semester, yearlong course

Prerequisite: B or above in AP Calculus BC or departmental approval

This is a yearlong course on the study of Calculus as it applies to multivariable functions. Topics will include partial derivatives, multiple integrals with applications, parametric curves, vectors, and vector-valued functions. The course is designed to give students a strong understanding and background for future success in science, engineering, and mathematics.

MTH2095: Differential Equations and Linear Algebra (H)**

5 credits per semester, yearlong course

Prerequisite: B or above in AP Calculus BC

This yearlong course is an introduction to the solutions of ordinary differential equations and their relationship to linear algebra. Topics include first order differential equations, matrix algebra, Gaussian elimination, determinants and applications, systems of linear equations, vector spaces, and linear independence. The course is designed to give students a strong understanding and background for future success in science, engineering, and mathematics.

MTH2094: Advanced Discrete Mathematics and Number Theory (H)**

5 credits per semester, yearlong course

Prerequisite: B or above in AP Calculus BC

This yearlong course will study fundamental discrete mathematical concepts and number theory. Topics include logic, truth tables, elementary set theory, proof techniques, combinatorics, graph theory, trees, circuits, prime numbers, Euclidean algorithm, modular arithmetic, and congruence. The course is designed to give students a strong understanding and background for future success in science, engineering, and mathematics.

MTH2098: Abstract Algebra (H)**

5 credits per semester, yearlong course

Prerequisite: Departmental approval

This yearlong course introduces students to abstract algebra and number theory concepts including groups, cyclic groups, permutations, cosets, isomorphisms, rings, fields, proof techniques, and vector spaces.

Mathematics

MTH2090: Complex Analysis (H)**

5 credits per semester, yearlong course

Prerequisite: Departmental approval

This is a college level course in the study of complex numbers. Topics include Complex Functions and Mappings, Analytic and Harmonic Functions, Complex Sequences and Series, Complex Elementary Functions, and Complex Integration. The course is designed to give students a strong understanding and background for future success in science, engineering, and mathematics.

MTH3089: AP Computer Science A**

5 credits per semester, yearlong course

Grade level: 11th - 12th

Prerequisite: B or above in AP Computer Science Principles or department approval

The AP Computer Science A is a college level course on the Java programming language. Because the design and implementation of computer programs to solve problems involve skills fundamental to the study of computer science, a large part of the course is built around the development of computer programs that correctly solve a given problem. Students will learn to write Java code and programs that are understandable, adaptable, and, when appropriate, reusable. Simultaneously, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications.

MTH3097: Advanced Coding and AI Applications (H)**

5 credits per semester, yearlong course

Grade level: 11th - 12th

Prerequisite: AP Computer Science A and department approval

Note: This course is approved as a UC a-g "G" elective and may fulfill one of the ASEP 11th or 12th grade course requirements

This course is divided into two semesters. The first semester will commence with the basics of computer programming, starting from Assembly, progressing through C++, and concluding with Python. The latter part of the first semester will cover concepts such as stacks and queues, simple searches and sorts, properties and traversal of graphs, as well as sorting and searching trees.

The second semester will emphasize the application of the knowledge acquired in the first semester to AI applications. Topics will include advanced searches using heuristics, the utilization of AIMA (AI: A Modern Approach) to develop AI for completing simple and complex tasks, creating a computer opponent for games, and learning how to use PyTorch for machine learning.

Throughout the entire year, students will also be tasked with creating an application to enhance their software engineering skills, including project planning. The first semester will be dedicated to research, while the second semester will focus on the development phase.

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Science

UC Subject Area “D”

Science Department Student Learning Outcomes:

21st century science is a global endeavor. As a department, we recognize that students who graduate from Fairmont science department will be informed citizens who think critically and have the ability to:

- Students will engage in scientific inquiry and analysis, acquiring a body of knowledge and employing rigorous methodologies to investigate phenomena, synthesize data, and construct evidence-based conclusions
- Students will demonstrate the ability to integrate disciplinary knowledge, applying principles from multiple scientific domains to understand complex systems and solve multifaceted problems
- Students will develop and apply communication and literacy skills to articulate scientific concepts with precision, critically evaluate information, and convey findings through diverse modalities, fostering effective collaboration
- Students will assess the ethical dimensions and broader implications of scientific advancements, applying ethics and societal impact to understand how science influences individuals, societies, and the environment
- Students will develop innovation and technological application skills by leveraging emerging technologies, computational tools, and engineering principles to design and implement novel solutions

SCI3029: Biology*

5 credits per semester, yearlong course
Grade level: 9th – 11th
Corequisite: Enrollment in IFC Level 3 and Writing & Language Seminar Foundation

This Adapted course provides a broad overview of the major areas of Biology. Topics covered include basic chemistry, organization and functions of cells, cellular respiration and metabolism, photosynthesis, cell cycle, genetics, biotechnology, evolution and ecology.

SCI3021: Biology CP*

5 credits per semester, yearlong course
Grade level: 9th – 12th
Prerequisite: None

This college prep Biology course provides a broad overview of the major areas of Biology. Topics covered include basic chemistry, organization and functions of cells, cellular respiration and metabolism, photosynthesis, cell cycle, genetics, biotechnology, evolution and ecology.

SCI3036: Biology (H)*

5 credits per semester, yearlong course
Grade level: 9th – 12th
Prerequisite: Teacher recommendation or an A or B in previous science class.

The Biology (H) course is designed to give students a detailed understanding of the concepts that lead to success in other advanced courses such as AP Biology and AP Environmental Science. It covers cell biology, cell structure and cell function, biochemistry of macromolecules, genetics, evolution and ecology.

SCI3044: AP Biology**

5 credits per semester, yearlong course
Grade level: 10th – 12th
Prerequisite: Chemistry (H) (with an A or B) or AP Chemistry (with a C+ or higher), Biology (H) (with an A or B), departmental approval

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.

Science

SCI3031: Chemistry CP*

5 credits per semester, yearlong course
Grade level: 10th – 12th
Prerequisite: Algebra 1 CP

This course will cover those concepts that will allow the student to have a basic understanding of chemistry. The course of study will include stoichiometry, atomic theory, bonding, descriptive chemistry, the periodic table, simple chemical reactions, thermochemistry and states of matter. The class will include an extensive hands-on program that allows students to “see” the concepts covered.

SCI3030: Chemistry (H)**

5 credits per semester, yearlong course
Grade level: 9th – 12th (9th for ASEP Only)
Prerequisite: Algebra I with a B or above, departmental approval

This course covers all the major areas of chemistry and prepares the student for AP Chemistry and AP Biology. It covers reactions, bonding theory, atomic theory, periodic law, stoichiometry, gas, acids and bases, kinetics equilibrium and oxidation and reduction.

SCI3033: AP Chemistry**

5 credits per semester, yearlong course
Grade level: 10th – 12th
Prerequisite: Chemistry (H) with an A or B, departmental approval
Corequisite: Algebra II/Trigonometry (H)

This course is designed to provide the student with a thorough understanding of freshman-level college chemistry. The goal is to prepare students for the AP Chemistry examination, administered during May. A strong performance on this examination will provide students with college credit at most universities. The course of study includes stoichiometry, bonding and molecular geometry, the chemical properties of the major groups of elements, behavior of solids, liquids and gases, equilibrium theory, kinetics, thermodynamics, electrochemistry and other selected topics.

SCI3032: Physics CP*

5 credits per semester, yearlong course
Grade level: 10th – 12th
Prerequisite: Successful completion of Algebra I CP and Geometry CP or (H)

This course is designed to provide students with a thorough understanding of basic topics and concepts in physics. This course addresses physics from a more conceptual, rather than a problem-solving approach. The course of study includes mechanics, fluids, wave motion, and light (optics), and electricity and magnetism.

SCI3041: Physics (H)**

5 credits per semester, yearlong course
Grade Level: 10th – 12th
Prerequisite: Departmental approval
Corequisite: Algebra II/Trigonometry

Physics (H) is designed to allow a student to discover how the Universe works using Energy as the overarching theme. After an introductory unit on math and methods, students will complete units on Newton’s Laws, Energy, Electricity and Magnetism, Waves, and Nuclear Energy. Labs and activities will be inquiry-based and phenomena will be used to engage student curiosity.

SCI3034: AP Physics C: Mechanics**

5 credits per semester, yearlong course
Grade level: 11th – 12th
Prerequisite: Departmental approval
Corequisite: AP Calculus AB or higher

This course is designed to give students a thorough understanding of calculus-based physics as it deals with mechanics. Students will be able to take the Physics C: Mechanics AP test at the conclusion of the course. It will include kinematics and Newton’s Laws of Motion. Extensive lab experiments using computer-based experimentation will also be done.

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Science

SCI3038: AP Physics C: Electricity & Magnetism**

5 credits per semester, yearlong course

Grade level: 11th – 12th

Prerequisite: AP Physics 1, AP Physics C: Mechanics, AP Calculus AB

AP Physics C: Electricity and Magnetism is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in one of the physical sciences or engineering. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like change, force interactions, fields, and conservation.

SCI3057: Quantum Physics & Computing (H)**

5 credits per semester, yearlong course

Grade level: 11th – 12th

Prerequisite: AP Physics 1, AP Physics C: Mechanics
Corequisite: AP Physics C: Electricity & Magnetism, AP Calculus BC or above

This course offers an introduction to the core principles of quantum mechanics and quantum computing. The fall semester focuses on foundational quantum concepts such as wave-particle duality, superposition, entanglement, and the uncertainty principle, helping students build a strong conceptual understanding. The spring semester delves into quantum computing, including the mechanics of quantum computers, programming in IBM's quantum language, and exploring revolutionary applications in fields like cybersecurity, artificial intelligence, and medicine. Students will engage with guest experts, explore real-world challenges, and stay up-to-date in this rapidly evolving field. Designed to satisfy UC requirements, this honors-level course prepares students for future study in advanced science and technology.

SCI3049 Environmental Science CP*

5 credits per semester, yearlong course

Grade level: 11th – 12th

Prerequisite: Successful completion of Biology CP and Chemistry CP

Environmental Science CP is a lab-based college preparatory course designed to investigate the role of humans in their environment through the use of project-based investigations, modeling, coursework, and field work. Students will develop an understanding of biological and physical environmental science through project-based units connected to their environment. Emphasis will be placed on resource management for sustainable future and critical thinking skills to make informed decisions concerning complex environmental issues.

The goal of the course is to facilitate students' engagement with science and engineering practices to investigate the dynamic interactions that occur between the chemical, physical, and biological components of the Earth's environment; and, to explore how humans interact, influence, and depend upon it.

SCI3050: AP Environmental Science**

5 credits per semester, yearlong course

Grade level: 11th – 12th

Prerequisite: successful completion of Biology (H) and Chemistry (H)

In AP Environmental Science, students cultivate their understanding of the interrelationships of the natural world through inquiry-based lab investigations and field work as they explore concepts like the four Big Ideas; energy transfer, interactions between earth systems, interactions between different species and the environment, and sustainability.

SCI3020: Human Anatomy and Physiology CP*

5 credits per semester, yearlong course

Grade level: 11th – 12th

Prerequisite: Biology CP or Biology (H) and Chemistry CP or Chemistry (H)

This course provides students with an understanding of human body systems and the close relationship between form and function in the human body through lectures, labs and research projects.

SCI3056: Marine Biology CP*

5 credits per semester, yearlong course

Grade level: 11th – 12th

Prerequisite: Biology CP

Marine Biology CP is an interdisciplinary, college-prep level course. The marine environment encompasses a large portion of our Earth and contains an incredible diversity of microbial, algal, plant and animal life forms. This course will examine the biology of the organisms and the abiotic factors (e.g. salinity, nutrients, water currents, and tides) that influence their distribution and abundance. Marine biology will include lectures, but will focus on interactive labs and experiences. We will look to environmental observation and data to guide our learning.

Science

SCI3094: AP Computer Science Principles**

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisite: Algebra 1 CP

No knowledge of any computer language is necessary. We will explore computer languages such as Python, Java Script, HTML, and CSS in different projects and environments, as well as pseudocode and algorithms written in plain language. Emphasis will be made on algorithm design and process, which can be applied to any language or environment. Students will complete many graphic design based projects and learn image editing skills in order to complete the performance tasks required by the AP Exam.

SCI3042: Computer Science Game Development & Design CP*

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisite: None

This course is an introductory computer science course where students study games and game design, create video games, and will work in team structures that encourage communication, collaboration, and efficient processes. They will build story lines, model characters, program simulations, and include sound to design in their own video game creations. When they complete their video games, they will display them in a website designed by the class. In doing all this, students will learn computing terminology, become familiar with the game software development processes, be introduced to various programming languages and environments, and analyze and discuss what makes a successful game as technology evolves over time.

SCI3130: AP Cybersecurity**

5 credits per semester, yearlong course

Grade level: 11th – 12th

Prerequisite: AP Computer Science Principles and/or Teacher recommendation

AP Cybersecurity is a yearlong high school course that offers a broad introduction to the field and aligns closely with a college-level, introductory cybersecurity course. Students learn about common threats and vulnerabilities and how they combine to create risk. Students study how individuals and organizations manage risk and how risk can be mitigated through a defense-in-depth strategy. Students explore specific vulnerabilities, attacks, mitigations, and detection measures across a variety of domains including physical spaces, computer networks, devices, and data and applications. Throughout the course, students consider the impact of cybersecurity on individuals, organizations, societies, and governments. Content and skills taught in the course align with the professional skills outlined in the National Initiative for Cybersecurity Education Workforce Framework.

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World Languages/ Language Other than English

UC Subject Area “E”

World Language Department Student Learning Outcomes:

- Students will explore a range of topics varying from daily life to more abstract ideas related to global issues. Students will also engage with content in different formats and expand complexities from various stages. They can recognize, analyze and apply different formats of text resources.
- Students will develop interpersonal skills by interacting and negotiating meaning in spoken and written conversations to share information, reaction, feelings and opinions. Students understand, interpret, and analyze what is heard, read, or viewed on a variety of topics. Students can present information, concepts, and ideas to inform, explain, persuade, and narrate on a variety of topics using appropriate media and adapting to various audiences of listeners, readers, or viewers.
- Students will use the language to investigate, explain and reflect upon their learning to apply their knowledge in the real world. Students will make relevant connections to the culture in which they live and foster the recognition of diversity of other cultures.
- Students will connect with other disciplines and acquire information and diverse perspectives in order to use the language to function in academic and career-related situations. Learners build, reinforce, and expand their knowledge of other disciplines while using the language to develop critical thinking. Learners access and evaluate information and diverse perspectives that are available through the language and its cultures.
- Students will be able to differentiate and recognize language structures and cultural issues between the target and their own language and culture. Develop insight into the nature of language and culture to interact with competence.
- Students can use the language both within and beyond the classroom to interact and collaborate in their community and the globalized world.

WL5011: Spanish I CP*

5 credits per semester, yearlong course
Grade level: 9th – 12th
Prerequisite: None

This course introduces Spanish communication skills. It provides the students with a vocabulary that reflects daily contact with the world around them. Students are introduced to basic grammatical structures, which they are expected to master. They also practice essential verb structures to express themselves both orally and in written form. In addition, students are provided ample practice in pronunciation, listening and conversation. Awareness of Hispanic culture is stressed.

WL5022: Spanish II CP*

5 credits per semester, yearlong course
Grade level: 9th – 12th
Prerequisite: A grade of C or above in Spanish I CP or Spanish 1A and 1B, teacher recommendation, and/or placement examination

This course expands on the foundations learned in Spanish I. It includes a review of basic grammar and an introduction to more complex constructions, vocabulary and idiomatic expressions. An emphasis is placed on reading and listening comprehensions, with activities designed to teach language in authentic contexts. Students strengthen their writing skills and improve on their speaking skills through regular classroom practice. Students will further their understanding of the diverse cultures of the Spanish speaking world.

WL5033: Spanish III CP*

5 credits per semester, yearlong course
Grade level: 10th – 12th
Prerequisite: A grade of C or better in Spanish II CP and teacher recommendation

This course advances students' ability to use the Spanish language in practical situations as well as academic settings. Students will increase their awareness of the culture and history of Spanish speaking countries. The course continues to build upon vocabulary and idiomatic expressions. It includes a comprehensive review of grammar, more complex structures and reading of authentic Spanish material from a variety of sources. This course uses a variety of themes to immerse students in meaningful communicative situations, to read for improved comprehension, and to write for useful communication.

World Languages/ Language Other than English

WL5044: Spanish III (H)

5 credits per semester, yearlong course
Grade level: 10th – 12th
Prerequisite: A grade of B or better in Spanish II CP, teacher recommendation, and/or placement examination

This course is designed for qualified students who demonstrate strong proficiency in listening comprehension, speaking, reading, grammar, and writing. It is the equivalent to college intermediate Spanish, with an emphasis on more advanced topics designed to encourage higher level thinking processes among students. This class will review and expand upon the essential points of grammar and will focus on providing students with ample opportunity for developing all four language skills. Extensive reading on a variety of topics enhances students' comprehension of the unique characteristics of Hispanic cultures. In preparation for the Advanced Placement course, students will work towards developing presentational and written communication skills as well as reading and listening comprehension.

WL5055: AP Spanish Language and Culture**

5 credits per semester, yearlong course
Grade level: 11th – 12th
Prerequisite: B or better in Spanish III (H)/Spanish IB SL1, teacher recommendation and/or placement examination

This course is designed to explore the Hispanic world through actual topics from authentic sources. The subject matter taught in support of this, is advanced level of language study. Students in this course already have comprehensive knowledge of Spanish language and culture and continue to build on this throughout the course. This course is taught in Spanish in order to develop fluency and strengthen language skills applied to various forms of communication. The students can understand the Spanish culture from different perspectives, make cultural comparisons and develop communication skills in this target language, while preparing to succeed on the AP Spanish Language and Culture exam.

WL5158: Mandarin I CP*

5 credits per semester, yearlong course
Grade level: 9th – 12th
Prerequisite: None

This first-year Mandarin Chinese course is designed for beginners. It aims to help students develop their communicative competence in the four basic skills of listening, speaking, reading and writing, while gaining competence in Chinese culture. Students will exercise their ability to compare aspects of different cultures, making connections to their daily life, and building links among communities. Pinyin will be taught at this stage of study.

WL5159: Mandarin II CP*

5 credits per semester, yearlong course
Grade level: 9th – 12th
Prerequisites: A grade of C or above in Mandarin I CP or Mandarin 1A and 1B, teacher recommendation, and/or placement examination

This is a Mandarin Chinese course for beginners who have taken Mandarin I. Students will continue to develop their vocabulary base, formulating grammatically correct sentences and comprehending questions along with delivering appropriate answers. The course is designed to expand students' existing knowledge of language and culture, and will further challenge them to incorporate language into their daily lives.

WL5170: Mandarin III (H)

5 credits per semester, yearlong course
Grade levels: 10th – 12th
Prerequisites: A grade of “B” or better in Mandarin II CP and teacher recommendation

This course is designed for qualified students who demonstrate strong proficiency in listening, speaking, reading, grammar, and writing. It prepares students to successfully pass the IB or AP language exams in the future. This class is a thematic course designed to further improve students' language proficiency and expand on vocabulary and idiomatic expressions. Students will acquire more advanced linguistic skills while systematically reviewing previous studied materials. Students will read more extensively on a variety of cultural and social topics adapted from authentic texts and develop an in-depth understanding of Chinese culture. Students are expected to make connections from content to real-life experiences and promote critical thinking skills through project-based learning mode.

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World Languages/ Language Other than English

WL5163: AP Chinese Language and Culture**

5 credits per semester, yearlong course

Grade levels: 11th – 12th

Prerequisites: A grade of “B” or better in Mandarin III (H)/Mandarin IB SL 1, teacher recommendation, and/or placement examination

This course is intended to prepare students to succeed on the AP Chinese Language and Culture exam and is offered to students who would like to integrate their language skills using real world sources and topics. These students already have a basic knowledge of the language and cultures of China and Chinese-speaking countries. This course is taught in Chinese to develop language skills which can be applied to various activities and forms of communication. Reading and writing comprehension strategies in context are a valuable part of this class. The class also encompasses a reasonable mastery of grammatical structure as well as oral and written communication in different registers.

WL5201: American Sign Language I CP*

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisite: None

American Sign Language I CP is a beginning foreign language course offered in the high school setting. This course offers students the beginning foundation for American Sign Language skill acquisition to include: finger spelling, numbers, basic signs, non-manual signals, grammar and syntax. Students will practice and create dialogs to demonstrate expressive and receptive communicative competence. Students will acquire knowledge and appreciation for the Deaf culture through literature, art, various readings, Deaf events and visitations by Deaf guest speakers.

WL5202: American Sign Language II CP*

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisite: A grade of C or above in American Sign Language I CP, teacher recommendation, and/or placement examination

American Sign Language II CP is a beginning foreign language course offered in the high school setting. This course offers students the beginning foundation for American Sign Language skill acquisition to include: finger spelling, numbers, basic signs, non-manual signals, grammar and syntax. Students will practice and create dialogs to demonstrate expressive and receptive communicative competence. Students will acquire knowledge and appreciation for the Deaf culture through literature, art, various readings, Deaf events and visitations by Deaf guest speakers.

WL5203: American Sign Language III CP*

5 credits per semester, yearlong course

Grade level: 10th - 12th

Prerequisite: A grade of C or above in American Sign Language II CP, and/or placement examination

American Sign Language III CP builds on material mastered in American Sign Language II. The emphasis in the classroom is on communicating solely through American Sign Language. The purpose of this course is to enable students to enhance proficiency in American Sign Language through a linguistic, communicative, and cultural approach to language learning. There is a continued emphasis on the development of receptive and expressive signing skills. Experiences with American Sign Language and Deaf literature are broadened. Cross-cultural understanding is fostered and real-life applications are emphasized throughout the course.

Visual and Performing Arts

UC Subject Area “F”

Visual & Performing Arts Department Student Learning Outcomes:

- To help students understand the value of visual and media literacy.
- To provide students with the formal knowledge necessary to explore their chosen creative expressions and to develop perceptual and analytical skills.
- To provide students with the venue and opportunity to effectively demonstrate their creative and artistic skills.
- To explore and value the diversity of the arts across times, places, and cultures in order to understand the dynamic nature of the arts.
- To foster a lifelong engagement of the arts in order to bridge the gap between cultural differences.
- To provide students with interpersonal and collaborative skills and language that can be applied across disciplines.
- To help students reflect upon themselves and gain a greater sense of self-esteem, confidence, advocacy, and competence.

VPA6620: Fashion Design I CP*

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisite: None

The Fashion Design Course focus on the study of the fashion and garment industry with emphasis on design and construction as they pertain to creating a successful fashion career or business. Students will consider current trends and best practices in the fashion industry which are applied in hands-on learning experiences and projects. Students will engage in a variety of activities including re-styling and upcycling clothing, illustration in all media, accessory and apparel construction through hand and machine sewing and unconventional methods, becoming familiar with the general characteristics, production, and care of textiles (fabrics), pattern making, draping on a dress form, marketing and sales on the business end of fashion and fashion throughout history and across cultures. Students will have the opportunity to showcase their work through fashion show productions and fashion business presentations. Fashion Design I focuses on introduction to design, industry and garment construction. Fashion Design II focuses on the advancement of skills in design and garment construction and development of a personal fashion line and brand.

VPA6623: Fashion Design II (H)**

5 credits per semester, yearlong course

Grade level: 10th – 12th

Prerequisite: Fashion Design I CP and teacher recommendation

Fashion Design II (H) builds upon the foundation of Fashion Design I CP, concentrating on advancing both design and garment construction skills. The course emphasizes the development of a personal fashion line and brand, with a particular focus on showcasing advanced fashion design and conceptual skills—taking a garment from concept to creation. Structured for independent, student-driven projects, the curriculum fosters creative exploration. Tailored for those aspiring to a career in fashion or wanting to build a professional fashion portfolio. Students will have the opportunity to showcase their work through fashion show productions and fashion business presentations. Additionally, the course explores fashion cultural studies, providing a comprehensive understanding of the industry. This immersive experience ensures students gain a well-rounded skill set, positioning them for success in the dynamic field of fashion.

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Visual and Performing Arts

VPA6914: Introduction to Visual Art CP*

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisite: None

This is a dynamic, hands-on beginning course where students develop their basic art skills and creativity in various studio projects. Students learn the basic techniques of drawing, painting, sculpture, graphic design, and more. Throughout the year, students explore a range of materials such as ink, collage, and clay as well as gain basic knowledge about art history and art theory. In this course, students are encouraged to develop their perceptive, interpretive, and analytical abilities. This class is a prerequisite for many advanced classes.

VPA6813: Advanced Visual Art (H)**

5 credits per semester, yearlong course

Grade level: 10th – 12th

Prerequisite: Teacher recommendation

This course is designed for students to build upon foundational art skills and advance their technical and conceptual abilities in a collaborative, open-studio environment. Students will develop a comprehensive portfolio and articulate thoughtful artist statements while exploring diverse techniques in drawing, painting, digital art, photography, collage, and 3D media.

The curriculum emphasizes the creative process, critical thinking, and communication, with opportunities for introspective sketchbook exercises, collaborative projects, and public exhibitions. Students will deepen their understanding of art history, from ancient Western traditions to contemporary movements, while exploring cultural, thematic, and philosophical connections to their personal lives and communities. The capstone portfolio will demonstrate breadth, depth, and artistic growth, suitable for pre-college or college admissions, preparation for further studio development, as well as personal enrichment.

VPA6850: Graphic Design CP*

5 credits per semester, yearlong course

Grade level: 9th - 12th

Prerequisite: None

The objective of the course is to gain a working knowledge of media in the category of Graphic Design, specifically digital design. This classroom is a studio, you behave like a “professional” artist in a studio. The studio space, media, and time are sacred things. Respect the studio. Respect the medium. Critiques, miniature exhibitions, gallery walks, client

solicitation, basic professional communication skills, branding, and business etiquette will be honed in this course. Students will learn digital illustration and image manipulation via Adobe Photoshop and Illustrator. The principles and elements of art will be introduced and incorporated so that students can create solid and expressive artistic compositions. Students will also delve into art history and the importance and meaning in the development of digital arts. Technical manuals and various professional and teacher provided texts will supplement demonstrations, peer to peer learning, and hands on experimentation. Laptops and tablets that can run Adobe Photoshop and Illustrator are required.

VPA6625: AP Art History**

5 credits per semester, yearlong course

Grade level: 10th - 12th

Prerequisite: Departmental approval

AP Art History is an introductory college-level art history course. Students cultivate their understanding of art history through analyzing works of art and placing them in historical context as they explore concepts like culture and cultural interactions, theories and interpretations of art, the impact of materials, processes, and techniques on art and art making, and understanding purpose and audience in art historical analysis.

Students may enroll in AP Art History as part of the IB Diploma programme, Art History forms an option in group 3: individuals and societies. The discipline is fundamentally about how individuals and social groups have responded to and represented aspects of their world and experience, creating a visual response which is simultaneously that of the individual and their society. The works produced may have meaning for different sections of that society. Works are studied from a variety of approaches, which comprise the core curriculum of the syllabus.

VPA6815: AP 2D Art and Design**

VPA6825: AP 3D Art and Design**

5 credits per semester, yearlong course

Grade level: 10th – 12th

Prerequisite: Introduction to Visual Arts CP or teacher recommendation

AP 2-D Art and Design and 3D Art and Design are an introductory college-level two-dimensional design courses. Students refine and apply 2-D and 3-D skills to ideas they develop throughout the course.

In both courses, students create a portfolio of work to demonstrate inquiry through art and design and development

Visual and Performing Arts

of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions.

VPA6813: AP Drawing**

5 credits per semester, yearlong course

Grade level: 10th - 12th

Prerequisite: Introduction to Visual Arts CP or teacher recommendation

AP Drawing is an introductory college-level drawing course. Students refine and apply drawing skills to ideas they develop throughout the course.

VPA9635: Introduction to Speech and Debate*

5 credits per semester, yearlong course

Grade level: 9th

Prerequisite: None

Public speaking is the art of reading, researching, analyzing, interpreting, and performing through the use of voice and body. This course will offer students an introductory exploration of the art of public speaking in a variety of contexts. This course will offer students opportunities to interpret and perform published works, write and perform original works, and engage in impromptu performances through impromptu speech. Students also will critically assess and analyze oral interpretations by performers and speakers. The course also offers students an opportunity to perform for peers and teachers. This course teaches life-time skills of public speaking and challenges students to apply them to everyday life.

VPA6932: Yearbook I CP*

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisite: None

In this introductory course, students will learn the fundamentals of yearbook production, including photography, graphic design, journalism, and teamwork. Students will also gain competencies in computer software such as Adobe InDesign, Photoshop, and Google Suite. The yearbook staff will capture compelling photos, design layouts, write engaging content, and collaborate with peers to produce a cohesive yearbook. Throughout the year, they will apply and refine these skills through a hands-on, real-world project that brings the school

community to life. Successful completion of the course is based on meeting deadlines, demonstrating personal responsibility, and collaborating effectively with peers throughout the year.

VPA6933: Yearbook II (H)**

5 credits per semester, yearlong course

Grade level: 10th – 12th

Prerequisite: Yearbook I CP and/or departmental approval

This one-year honors course is for returning yearbook staffers who want to refine their skills while taking on a leadership role. Students will explore and apply contemporary digital media, journalism, publication, and graphic design standards while learning advanced techniques in digital photography, copywriting, editing, layout creation, and marketing. They will also develop key leadership skills, guiding the yearbook team and ensuring a cohesive final product. Successful completion of the course is based on meeting deadlines, producing high-quality work, and demonstrating effective leadership and collaboration throughout the year.

VPA6522: Introduction to Film CP*

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisite: None

This course introduces students to the art of film. Students will gain in depth knowledge of film by studying its history -- from roots during the late 1800's, to the era of classical Hollywood cinema in the 1940's and 50's, up to modern-day blockbusters. Students will also learn about film as a visual artistic medium through basic film style and cinematic fundamentals.

VPA6614: Introduction to Digital Filmmaking CP*

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisites: None; Introduction to Film CP recommended

This course is designed to introduce students to the art of film making through the use of digital tools and by exploring the skills and practices of the professionals who govern this art form. Students will take part in activities, projects, and assignments which will acquaint them with the specific duties of actors, directors, screenwriters, producers, cinematographers, editors, and sound and lighting technicians. Most importantly, the students will explore the creative process and energy that goes into making any type of film, whether amateur or professional in nature.

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Visual and Performing Arts

VPA6615: Advanced Digital Filmmaking (H)**

5 credits per semester, yearlong course

Grade level: 10th – 12th

Prerequisite: Beginning Digital Filmmaking CP and teacher recommendation

This course gives motivated students, who already have a background in film production, the opportunity to produce advanced content and work together in an environment that simulates a film production studio. Students will collaborate on large-scale projects that are designed to challenge their creativity. The class will also focus on the production of Husky Vision, a 20-30 minute monthly news and variety show. This class emphasizes a crew-based learning environment requiring commitment, dedication, and a willingness to work well with others. However, emphasis is also placed on individual accomplishment through refinement and building on previously-learned skills.

VPA6511: Rehearsal and Performance*

5 credits per production

Grade level: 9th – 12th

Prerequisite: Admission by audition

Students in this course will be cast and crew for two Fairmont Theatre productions -- a fall play and/or a spring play. Rehearsals for these productions take place after school and on weekends. Students will learn characterization, script analysis, line memorization, improvisation, blocking, and taking direction, as well as various aspects of producing a theatrical performance; theatre management, production, technical theatre, stagecraft, and lighting.

VPA6573 Technical Theatre II (H)**

5 credits per semester, yearlong course

Grade level: 9th - 12th

Prerequisite: Technical Theatre CP or Rehearsal and Performance

This honors-level course expands upon the foundational skills of Technical Theatre I. Students will advance their skills in the elements of theatrical skills including lighting and sound design, and set/prop fabrication. Students will further develop their skills in set design. Students in this course will be required to commit to some after-school hours for lab work and will need to provide after-school technical support for tech week and school productions.

VPA6514: AP Music Theory**

5 credits per semester, yearlong course

Grade level: 10th – 12th

Prerequisite: Chamber Ensemble CP, Concert Choir CP, or Advanced Concert Choir (H)

AP Music Theory is an advanced-level course designed for high school students who have a passion for music and a desire to deepen their understanding of its theoretical foundations. AP Music Theory offers a challenging and rewarding experience for students seeking a deeper understanding of music theory, preparing them for collegiate-level study and fostering a lifelong appreciation for the art of music. This course is intended for students who have successfully completed at least one year of participation in the Chamber Ensemble, Concert Choir, or Advanced Concert Choir, demonstrating a commitment to musical excellence. AP Music Theory goes beyond the fundamentals, providing students with a comprehensive exploration of music theory concepts at a collegiate level.

VPA6011: Concert Choir CP*

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisite: Previous vocal experience or teacher recommendation

This course focuses on proper vocal technique and performance etiquette. The choral repertoire will include a variety of genres to include sacred and secular selections. This course also introduces choral world music as a vehicle to learn about and embrace other cultures while diversifying the singing classroom. This group will perform at campus and off-site events competitions and festivals.

VPA6421: Advanced Concert Choir (H)**

5 credits per semester, yearlong course

Grade level: 10th – 12th

Prerequisite: Concert Choir CP and teacher recommendation

The Advanced Concert Choir (H) course is an intensive and advanced-level choral program designed for students who possess exceptional vocal ability, musical proficiency, and a strong commitment to choral excellence. This course provides an immersive experience in choral music, focusing on advanced repertoire, vocal technique, musicianship, and performance skills. Students enrolled in this honors course will work collaboratively to achieve a high standard of artistic expression in choral singing. Enrollment in the Advanced Concert Choir (H) course requires a successful audition, teacher recommendation, and prior participation in Concert Choir CP at least one year. Students should demonstrate advanced vocal abilities, sight-reading skills, and a commitment to the rigorous demands of the honors-level course.

Visual and Performing Arts

VPA6010: Chamber Ensemble CP*

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisite: None

This course is a yearlong instrumental ensemble course designed to improve the playing technique and musicianship of the student members in order to prepare for public performances and to promote lifelong learning and participation in music. Audition is not required, however previous experience in playing the instrument is required. Performances will include a winter concert, festivals and competitions, a spring concert, and various events on campus. The purpose of this chamber ensemble course is to develop students' playing technique, including posture, breath support, resonance, tone production, and articulation, by means of various exercises, kinesthetic activities, lectures, and rehearsal of performance literature. Through various balance and stretching exercises, students will understand how to hold themselves in correct body placement for optimal breath support and tone production. This course will also seek to develop students' ability to recognize, understand, describe, and perform the basic elements and processes of music that are heard and presented in a score including clefs, key signatures, time signatures, notes, rhythms, articulations, dynamic markings, tempo markings, and "road map" markings. This course will also develop students' understanding of the history of music from medieval period to the present day.

VPA6012: Advanced Chamber Ensemble (H)**

5 credits per semester, yearlong course

Grade level: 10th – 12th

Prerequisite: Chamber Ensemble CP and teacher recommendation

Chamber Ensemble (H) is an advanced-level music course designed for students who demonstrate exceptional proficiency and dedication to their musical studies. The course emphasizes collaborative learning, individual artistry, and a deep understanding of diverse musical styles. This course is designed to provide a challenging and rewarding experience for high school musicians who are passionate about chamber music and dedicated to advancing their skills in a collaborative and supportive environment. Students are encouraged to take ownership of their musical development by engaging in independent learning and private lessons. Students should have successfully completed at least one year of Chamber Ensemble CP and have a strong foundation in music theory.

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Electives

UC Subject Area “G” Electives

ENG8318: Strategies for Success CP*

5 credits per semester, one semester course

Grade level: 9th

Prerequisite: None

This course explores learning strategies for success including academic, intra-personal and interpersonal skill sets. The course is designed to emphasize and teach the benefits of a multi-dimensional high school experience, to promote self-esteem, and to encourage responsibility. The course will examine essential academic competencies, social networking protocols, the impact of body language in personal and public speech, and an introduction to emotional intelligence. This is a project-driven, interactive course, and student interaction and participation are of prime importance.

ACD9636: Advanced Speech and Debate (H)**

5 credits per semester, yearlong course

Grade levels: 10th - 12th - Zero Period

Prerequisite: Instructor approval

Students enrolled in this class should feel confident in their abilities to speak in front of an audience. Students will be motivated to acquire communication skills quickly as the class will focus on the art of persuasion. Students will gain library research skills and critical thinking skills as they obtain and categorize evidence, and argue both sides of the National Forensic League’s Public Forum debate topics. This activity takes dedication and challenges students’ higher-level thinking skills. Students are required to debate in at least three Saturday debate tournaments in which they will travel to other high schools to compete. Students must be willing to demonstrate self-motivation and self-control to succeed in this endeavor. Students participate in County competitions in January and February.

ACD8411: Academic Decathlon (H)**

5 credits per semester

Grade level: 9th – 12th

Prerequisite: None

Academic Decathlon is an honors-level course which prepares students for academic competition based on 10-subject areas based on a chosen theme each year. The subjects studied include, music, art, math, economics, literature, science, and social science. There are three additional components that focus on speech, both prepared and impromptu, an interview and an essay based on the chosen topic.

ACD1091: Leadership/ASB*

5 credits per semester, yearlong course

Grade level: 9th – 12th

Prerequisite: ASB application approval

Note: ASB is not factored into the student GPA

Students elected/appointed into ASB will be enrolled in the Leadership/ASB course. Students will represent the greater student body, organize and attend school events including, but not limited to, dances, rallies, Open House, Back to School Night, athletic events, art productions, and other events throughout the year. ASB members are considered student ambassadors and are expected to be in good academic standing, abide by Fairmont standards, and be exemplary leaders on campus.

Physical Education

Physical Education Department Student Learning Outcomes:

- Students will demonstrate proficiency in a variety of physical activities, exhibiting competency in fundamental movement skills, coordination, and physical fitness.
- Students will develop an understanding of the importance of leading a physically active lifestyle, including the benefits of regular exercise and the impact of physical activity on overall health and well-being.
- Students will demonstrate measurable improvement in their physical fitness levels and overall health upon completing the Fairmont Fitness Testing each quarter, reflecting a commitment to personal well-being and an active lifestyle.
- Students will understand the principles of sports medicine, including injury prevention, assessment, treatment, and rehabilitation techniques for athletes and physically active individuals.
- Students will demonstrate knowledge of human anatomy and physiology, with a focus on how the body responds to physical activity, exercise, and sports-related stressors.
- Students will analyze the impact of nutrition, hydration, and rest on performance and overall health, and apply this knowledge to promote optimal well-being for individuals engaged in physical activities.
- Students will develop an understanding of mental health and its relationship to physical activity, stress management, and overall wellness, and recognize the importance of mental well-being in performance and everyday life.
- Students will engage in hands-on learning experiences, critical thinking, and problem-solving related to real-world health challenges, fostering the development of practical skills and a deep understanding of health-related topics.

PE9010: Health CP*

5 credits per semester, one semester course

Grade level: 9th – 12th

Prerequisite: None

Note: This course is approved as a UC a-g “G” elective

This course makes students aware of how to live healthy lives. This course provides for character-shaping and focuses on a positive self-image. It outlines the methods of exercise, diet and fitness to reach personal health goals. The course also examines interpersonal relationships and how they affect our lives as well as the dangers of drugs and disease. It also covers methods of preventing health-threatening issues.

PE9000: Physical Education

5 credits per semester, semester/yearlong course

Grade level: 9th – 12th

Prerequisite: None

Note: Physical Education is not factored into the student’s GPA

The Physical Education Department program at the high school level provides experience aimed at developing an appreciation for the benefits and enjoyment of physical activity. Graduates of the program fully understand the relationship between good health and regular exercise. Students are expected to participate in this course or on an inter-scholastic athletic team throughout the school year.

PE8601: Yoga*

5 credits per semester, semester/yearlong course

Grade level: 9th – 12th

Prerequisite: None

Note: This course is approved as a UC a-g “G” elective

This course is designed for students to develop skills and gain knowledge in human movement through the physical practice of yoga. This is an active class where students practice yoga while gaining a deep understanding of its influence on the physical body and overall health. Students will examine specific areas of anatomy, kinesiology, biomechanics, and psychomotor behavior in a variety of contexts. Students will become familiar with healthy choices in relation to nutrition, physical activity, and well-being. Students learn about beneficial lifestyle choices and yoga techniques to assist in managing a variety of physical, mental, and emotional conditions. Students will develop a personal health plan, which they monitor and adjust to meet their own personal needs.

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Physical Education

PE9023: Weightlifting*

5 credits per semester, semester/yearlong course
 Grade level: 9th - 12th
 Prerequisite: None
 Note: Purchase of \$50 fitness app

This course is designed to prepare students to develop strength, understand proper exercise techniques, and acquire skills for lifelong use. The class aims to promote physical fitness, muscle development, and overall well-being. Students will learn about various weightlifting exercises, equipment usage, and safety protocols, with a curriculum that includes free weights, barbells, and calisthenics aimed at enhancing physical fitness. Additionally, students will gain knowledge about the principles of strength and conditioning.

PE9022: Contract Sports

One semester
 Grade level: 9th - 12th
 Prerequisite: None

Students have the option of obtaining P.E. credit for outside sports activities with the prior approval of the Athletic Director prior to participation in said activity. Contract sports are offered only in the event that P.E. and/or CIF Sports do not fit within a student's schedule or the student competes at a high level within a sport not offered at Fairmont Prep or Fairmont SJC. Students must participate in the current semester and for a minimum of five hours per week for at least nine weeks, or for a minimum of

three hours per week for a total of 15 weeks (total hours should not be less than 45, yet the minimum number of weeks must be nine regardless of the hours). The focus of these activities should be to enrich the physical education of the student while exercising students both mentally and physically.

PE9021: CIF/Interscholastic Sports

5 credits per team sport
 Grade level: 9th - 12th
 Prerequisite: Enrollment in a Fairmont team sport

There are 20 interscholastic sports teams offered for both boys and girls. These teams are chosen by the coach and participate in California Interscholastic Federation approved events. Students who complete a full season in CIF Sports will receive one semester's credit toward their P.E. requirement.

PE9021: Strength & Conditioning*

5 credits per semester
 Grade level: 9th-12th
 Corequisite: Enrollment in Varsity Basketball, Hockey Program

This course is designed specifically for student-athletes who play hockey or basketball and want to take their performance to the next level. Through sport-specific training, students will build strength, power, speed, agility, and endurance with a focus on the physical demands of their game.

SEASON	BOY'S CIF SPORTS	GIRL'S CIF SPORTS
Fall	Cross Country	Volleyball Cross Country Tennis Golf
Winter	Basketball Soccer Ice Hockey (club) Fencing (club)	Basketball Soccer Cheer Fencing (club)
Spring	Baseball E-Sports Tennis Golf Swim/Diving Volleyball Badminton Track & Field	Swim/Diving E-Sports Badminton Track & Field

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Advanced Programs

Advanced Science and Engineering

Advanced Science and Engineering Program (ASEP) Student Learning Outcomes:

- Student will apply conceptual thinking to address and solve specific problems at the intersection of subfields within science and engineering with an ethical lens
- Students will develop skills to extrapolate beyond what is observed, envisioning what is possible
- Students will create and grow meaningful learning relationships with ASEP colleagues, teachers, and experts in the pursuit of science throughout their high school experience
- Students will investigate and deepen their own positionality and connection to fields of science and engineering through empathy and inquiry

SEP3140: Methodologies in Science & Engineering (H)*

Exclusive Advanced Science and Engineering Course
 5 credits per semester, yearlong course
 Grade level: 9th
 Prerequisite: Concurrent enrollment in the Advanced Science and Engineering Program
 Note: This course is approved as a UC a-g "D" science course

This foundational course is required for all freshmen enrolled in the Advanced Science and Engineering Program at Fairmont. Students will be introduced to topics and skills necessary in scientific and engineering study. The course utilizes a problem-based learning (PBL) approach. Students will gain knowledge and skills through active learning centered on the investigation and resolution of real-world problems. Course assessments include classroom assignments, projects, lab reports, presentations and examinations.

SEP3141: Bioengineering (H)**

Exclusive Advanced Science and Engineering Course
 5 credits per semester, yearlong course
 Grade level: 10th
 Prerequisite: Concurrent enrollment in the Advanced Science and Engineering Program
 Note: This course is approved as a UC a-g "D" science course

Building on skills and knowledge gained in Methodologies in Science and Engineering (H), the Bioengineering (H) course is required for sophomore students enrolled in the Advanced Science and Engineering Program. Future science and engineering students will be expected to see the intersection of different disciplines. The bridging of biology, engineering, along with material sciences in 3D organ printing or the Human Genome Project, are examples of such a convergence. A very broad area of study, bioengineering can include elements of electrical and mechanical engineering, computer science, chemistry, and biology. Examples of class activities include building a simple EKG, developing a novel personal care product, learning about electrophysiology, genetic engineering, and nanotechnology. The ethical dilemmas created by new technologies in the field of science and engineering will also be explored. The course utilizes a problem based learning approach. Students will be evaluated by classroom assignments, projects, as well as written reports, presentations and exams.

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SEP3029: Organic Chemistry (H)**

Exclusive Advanced Science and Engineering Course

5 credits per semester, yearlong course

Grade level: 11th or 12th

Prerequisite: AP Chemistry, Concurrent enrollment in the

Advanced Science & Engineering Program

Note: This course is approved as a UC a-g "D" science course

This course covers the topics that would be included in a first year college course in organic chemistry. In addition to looking at the structure of alkanes, alkenes and alkynes, we will look at the chemical reactions and mechanisms of these reactions. We will examine the reactions of carboxylic acids, amines, alcohols, esters, ethers, and aromatic compounds. Structure of compounds will be determined by using analytic methods such as IR spectrometry, NMR, and UV-Vis. We will also look at how organic chemistry is used in modern day society and medicine.

SEP3080: Engineering (H) - U of A Engineering Physics 102

Exclusive Advanced Science and Engineering Course

5 credits per semester, yearlong course

Grade level: 11th or 12th

Prerequisite: Placement in AP Calculus AB or higher.

Concurrent enrollment in the Advanced Science &

Engineering Program

Engineering 102 introduces student to engineering design principles and practices as well as to emerging and current challenges within the field. The course also provides students with a perspective on the various engineering disciplines, which helps them select an engineering degree program that best fits the students to their skills and interest. Projects include the solar oven project, the catapult, helicopter blade design, prosthetic hand, and 3D printing providing access to clean H₂O. This course is a project-based, hands-on introduction to university engineering, modeled after University of Arizona's Engineering 102 course. Students in this course are dual enrolled and earn 3 semester units of credit from the University of Arizona

MTH3097: Advanced Coding and AI Applications (H)**

5 credits per semester, yearlong course

Grade level: 11th – 12th

Prerequisite: AP Computer Science A and department approval

Note: This course is approved as a UC a-g "G" elective and may

fulfill one of the ASEP 11th or 12th grade course requirements

This course is divided into two semesters. The first semester will commence with the basics of computer programming, starting from Assembly, progressing through C++, and concluding with Python. The latter part of the first semester will cover concepts such as stacks and queues, simple searches and sorts, properties and traversal of graphs, as well as sorting and searching trees.

The second semester will emphasize the application of the knowledge acquired in the first semester to AI applications. Topics will include advanced searches using heuristics, the utilization of AIMA (AI: A Modern Approach) to develop AI for completing simple and complex tasks, creating a computer opponent for games, and learning how to use PyTorch for machine learning.

Throughout the entire year, students will also be tasked with creating an application to enhance their software engineering skills, including project planning. The first semester will be dedicated to research, while the second semester will focus on the development phase.

SEP3142: Biotechnology (H)**

Exclusive Advanced Science and Engineering Course

5 credits per semester, yearlong course

Grade level: 11th or 12th

Prerequisite: Bioengineering (H), Concurrent enrollment in AP

Biology

Note: This course is approved as a UC a-g "D" science course

Biotechnology (H) will provide an overview of technologies in molecular and cellular biosciences. It will cover the basic principles of these technologies and discuss various applications to biotechnology. The course is designed for students with some understanding of molecular and cellular biology who wish to be familiar with the latest technologies through lab-intensive experience. The course will consist of instruction, application, and discussion format with two 80-minute periods and one 45-minute period per week. The course is separated into six modules each providing a general introduction and explanation of the technical theory behind and practice with specific biotechnology techniques. Unique features and limitations of each modality along with advantages and disadvantages of each are explored. The class periods include demonstration and practice of each procedure,

Advanced Programs

detailed conversations of data analysis and discussion of interpretation of results. Application of these techniques to relevant research is highlighted using current primary literature that will further be used for class presentation and discussion. Course requirements include memoranda that include detailed notes on procedures and findings, regular contributions to class discussions, periodic assessment, and a final biotech design project. Students are required to have an understanding of introductory biological technology and concepts from cellular and molecular biology (equivalent to ASEP Bioengineering AND biology coursework (AP recommended)) prior to taking this course.

SEP9049: Advanced Science and Engineering Program Internship

Exclusive Advanced Science and Engineering Course/
Opportunity

3 or 5 credits dependent on the length of internship

Grade level: 10th – 12th

Prerequisite: Approval of ASEP Program Director

Advanced Science and Engineering Program students engaged in meaningful extracurricular hands-on research or internship experience can receive school credit while learning. Students who are working in their designated field of study, spending time directly observing and participating in the profession are eligible. Students are required to receive written pre-approval from the program director and provide a description of duties, a log of hours, a summary of the experiences and a post evaluation from the professional in order to receive credit.

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Advanced Programs

Advanced Business Program

Advanced Business Program (ABP) Student Learning Outcomes:

- Students will be able to understand and apply the vocabulary and terminology of Advanced Business in both an oral and written form.
- Students will be able to evaluate basic financial statements for strengths and weaknesses while identifying appropriate financing and investment opportunities through the securities markets.
- Students will be able to recognize and develop an appreciation for customer needs, in order to apply appropriate marketing/advertising strategies.
- Students will be able to identify and assess the requirements for starting a business, including the creation of a written business plan.
- Apply analytical and problem-solving skills, while interacting collaboratively with team members to successfully achieve team goals.
- Apply ethical principles in the business environment with people of diverse ethnic, cultural, gender and other backgrounds.

ABP4912: Introduction to Business & Finance (H)**

Exclusive Advanced Business Program Course
5 credits per semester, yearlong course
Grade level: 9th

Prerequisite: Enrollment in the Advanced Business Program
Note: This course is approved as a UC a-g "G" elective

This survey course provides the foundation for the Advanced Business Program. The course covers Advanced Business basics, management, marketing, finance, cultural influences on business, and ethical and social issues related to doing business in a global environment. Students gain an understanding of commonly used business jargon and begin to critically think about the decisions that business leaders must face.

ABP4939: AP Business and Personal Finance**

Exclusive Advanced Business Program Course
Grade level: 9th

Prerequisite: Enrollment in the Advanced Business Program
Note: This course is approved as a UC a-g "G" elective

AP Business with Personal Finance is a yearlong high school business and personal finance course that aligns closely with a college-level introduction to business course. Students explore the business disciplines of entrepreneurship, marketing, finance, accounting, and management through real-world business applications, case studies, and project based learning. In addition, students learn and apply all the National Standards for Personal Financial Education created by the Council for Economic Education and the Jump Start Coalition for Personal Financial Literacy.

ABP4937 - Essentials of Marketing (H) — Syracuse University MAR301**

Exclusive Advanced Business Program Course
5 credits per semester, semester course
Grade level: 11th

Prerequisite: Enrollment in the Advanced Business Program
Note: This course is approved as a UC a-g "G" elective and also receives college credit from Syracuse University.

Essentials of Marketing provides an introduction to the Marketing business function. The purpose of the course is to develop an understanding of how companies use marketing frameworks to create value for their stakeholders, e.g., customers, shareholders, and employees. Key marketing concepts and terminology will be presented, enabling you to better understand how marketing decisions are implemented

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in practice. You will gain an appreciation for the philosophy and process of marketing and the impact it has on business, society, and life in general. In addition, you will be able to analyze how customers make purchase decisions and recognize how marketing strategies and tactics influence consumer behavior. You will also understand how marketing managers use an integrated marketing mix (Product, Promotion, Pricing, and Place) to create competitive advantage. To achieve these objectives, we will use a variety of pedagogical techniques including lectures, class discussions and hands-on exercises. Also, I expect you to share your own "customer" experiences.

SOC4144: AP Macroeconomics**

5 credits per semester, yearlong course
Grade level: 11th* - 12th/ *ABP only

Prerequisite: Departmental approval
Note: This course is approved as a UC a-g "G" elective

This course prepares students to take the AP Macroeconomics exam. The course facilitates students' understanding of the economic problems and institutions of the nation and the world. A particularly strong emphasis is given to study and analyze the role of government in economics, monetary and fiscal growth, different types of inflation and methods of addressing it, the rise of the global economy and problems and benefits of international trade. Students write several analytical essays, research papers, and class presentations.

ABP4936: Introduction to Entrepreneurship (H) — Syracuse University EEE370**

Exclusive Advanced Business Program Course
5 credits per semester, semester course

Grade level: 11th Prerequisite: Enrollment in the Advanced Business Program

Note: This course is approved as a UC a-g "G" elective and also receives college credit from Syracuse University.

During this course, we will assess, explore, critique, and celebrate the phenomenon of entrepreneurship. Entrepreneurship is approached as a way of thinking and acting, as well as an attitude and a behavior. Our emphasis is on entrepreneurship as a manageable process that can be applied in virtually any organizational setting. Moreover, our interest is in sustainable entrepreneurship or entrepreneurship over the life cycle of a person's entire career; organizations as they evolve from start-up enterprises to sizeable corporations; and societies as they move from undeveloped to post-industrial. However, our principal focus will be on the creation of new ventures, the ways that they come into being, and factors associated with their success.

SOC4144: AP Microeconomics**

Exclusive Advanced Business Program Course
5 credits per semester, yearlong course

Grade level: 12th only

Prerequisite: AP Macroeconomics

Note: This course is approved as a UC a-g "G" elective

AP Microeconomics is an introductory college-level microeconomics course. Students cultivate their understanding of the principles that apply to the functions of individual economic decision-makers by using principles and models to describe economic situations and predict and explain outcomes with graphs, charts, and data as they explore concepts like scarcity and markets; costs, benefits, and marginal analysis; production choices and behavior; and market inefficiency and public policy.

ABP4938: Business Management (H)**

Exclusive Advanced Business Program Course
5 credits per semester, yearlong course

Grade level: 10th

Prerequisite: Enrollment in the Advanced Business Program

Note: This course is approved as a UC a-g "G" elective

This advanced-level course provides an in-depth understanding of business management principles, leadership strategies, and organizational decision-making. Students will explore key topics such as business ethics, strategic planning, operations management, financial analysis, marketing strategies, and human resource management. Through case studies, real-world simulations, and project-based learning, students will develop critical thinking, problem-solving, and leadership skills necessary for success in the business world. Emphasis will be placed on data-driven decision-making, innovation, and the role of management in a global economy.

ABP4919: Business Communication: Capstone (H)**

Exclusive Advanced Business Program Course
5 credits per semester, yearlong course

Grade level: 12th

Prerequisite: Enrollment in the Advanced Business Program

Note: This course is approved as a UC a-g "G" Elective

The yearlong Capstone course is the culminating classroom experience within the Advanced Business Program. The course includes task-based curriculum integrating various business topics including Accounting, Personal Finance, Administration, Operations, Communications, Human Resources, Sales & Marketing, and Economics. The purpose of this course is to bring the business world to students by teaching entrepreneurship

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and practical skills essential to career readiness while promoting healthy competition to motivate students. The course is founded on the fundamental belief that all students will learn, learning will be relevant, students will apply what they learn, students will be encouraged to explore career options, and students will understand the world of work. With the guidance of the teacher and real-world business partners, students will determine the nature of and develop their business, its products and services, its management and structure, and engage in the daily operations of running a business.

ABP9048: Advanced Business Program Internship

Exclusive Advanced Business Program Course/Opportunity

3 or 5 credits dependent on the length of internship

Grade level: 10th - 12th

Prerequisite: Enrollment in the Advanced Business Program and ABP Director approval

This course is for students to receive experience working in their designated field of study. However, any student involved in a hands-on, meaningful internship focused in a professional field may apply for school credit. The student is required to spend most of the time practicing or directly observing the profession at work (not filing, answering phones, etc.). Students are required to receive written pre-approval from a campus supervisor (department chair or administrator) and to submit a log of hours, a description of duties, a post-evaluation from the professional, and present a summary of the experience.



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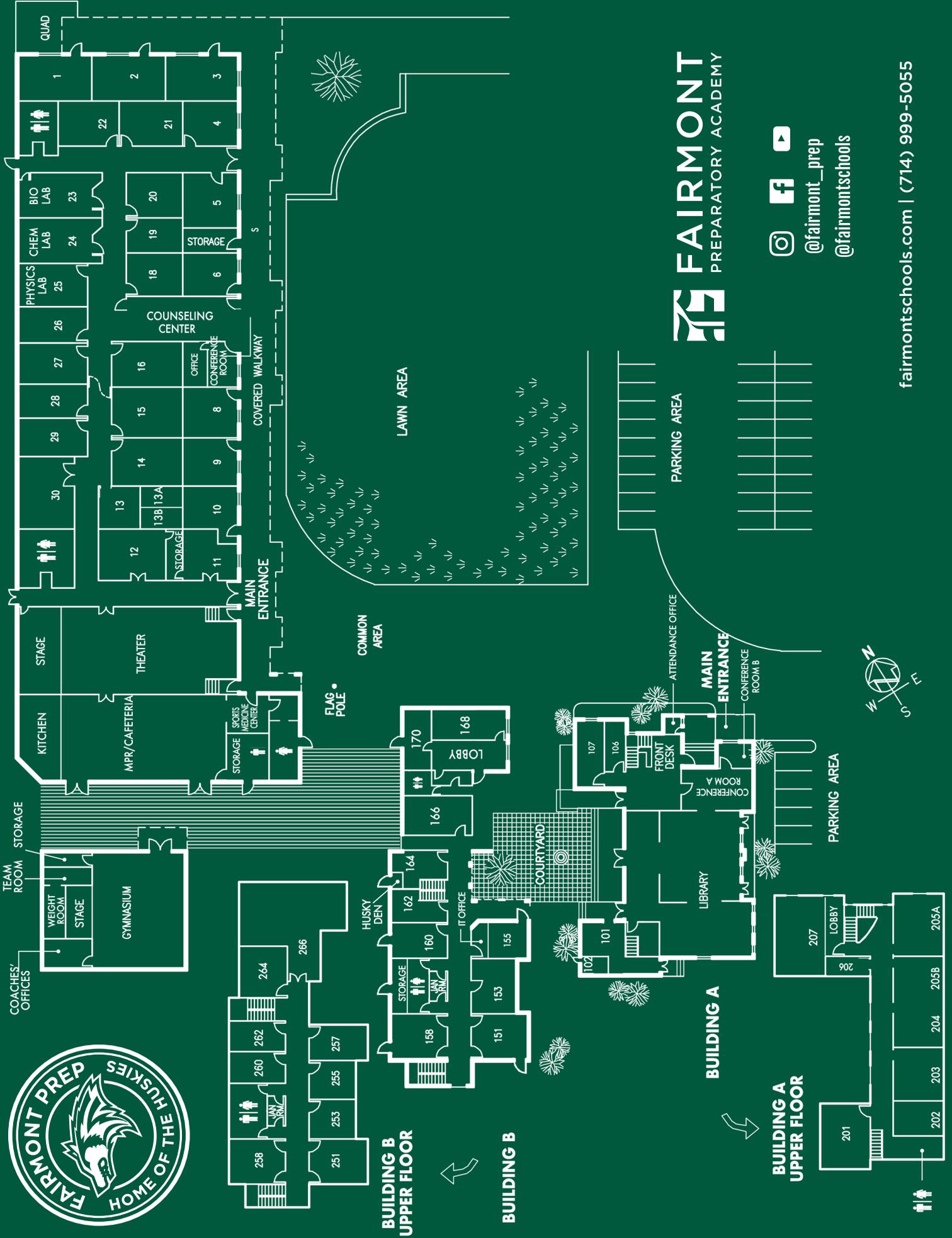


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