



Course Catalog



MAUI PREPARATORY ACADEMY

4910 HONOAPI'ILANI HIGHWAY

LAHAINA, HAWAII 96761

808-665-9966

admissions@mauiprep.org



Table of Contents

| | |
|---|----|
| Welcome to Maui Preparatory Academy!..... | 3 |
| Academic Policies | 4 |
| Middle School Course of Study | 5 |
| Middle School Course Descriptions..... | 6 |
| Graduation Requirements..... | 8 |
| High School Course of Study..... | 9 |
| High School Course Descriptions..... | 10 |



Welcome to Maui Preparatory Academy!

Founded in 2005, our school offers excellence in three major areas: academics, performing arts, and athletics. Our mission and vision establish a culture of excellence focused building RELATIONSHIPS, fostering EMPOWERMENT, and ensuring RELEVANCE.

The Graham Center for Creativity, Innovation, and Entrepreneurship (completed in 2019) provides the ability to develop new ideas and discover unique ways of problem-solving as well as the freedom to innovate, create solutions, and learn beyond the confines of the classroom.

The Bozich Center for Athletics and Performing Arts (completed 2020) creates a safe and modern space for performing artists and athletes to access and benefit from an already sustainable and successful program. This center also provides Maui Prep the opportunity to extend itself to the West Maui and island community at large.

A native of Burbank, California, and graduate of the University of Southern California's Rossier School of Education, I have published my dissertation on educational management and fostering leadership sustainability in Hawaii's K-12 schools. I look forward to propelling our school along its current upward trajectory.

As a Head of School, I collaborate with a wonderful administration, faculty, staff, families, and students. Allied with our Board of Trustees, we seek to further enhance and supersede expectations for our entire Maui Prep community.

Welcome to the Maui Prep 'ohana. You will find a kind, deeply connected community that thrives on elevating the experience for our students and the West Maui community.

Dr. Miguel Alejandro Solis
Head of School





Academic POLICIES

As a college preparatory school, Maui Prep expects students, teachers, and parents to maintain the highest academic standards. Formal education is more than just facts and formulas; a well-rounded student develops accountability, problem-solving, critical thinking, and time management skills that serve well beyond the classroom.

Academic Honesty

The school regards cheating, plagiarism, or any falsification of academic work as a breach of honor and integrity. Students are responsible for producing their own work. Should they receive assistance of any kind, it must be acknowledged in writing. Both cheating and plagiarism are seen as serious forms of dishonesty.

Excerpted from the Maui Prep Parent-Student Handbook

Honors

At the end of each semester, a student achieving a GPA of 3.30 or higher for the semester with no effort and behavior grades of N or U in any subject will be placed on the **Honor Roll**.

At the end of each semester, a student achieving a GPA of 4.00 or higher for the semester with no effort and behavior grades of N or U in any subject will be placed on the **Head's List**.

Homework Policy

Homework is an extension of the classroom experience. Just as athletes cannot expect to perform at the highest level without training, scholars must invest time in practicing concepts, analyzing ideas, or sharpening memorization skills. Therefore, students should expect that teachers will

assign work that will reinforce concepts and exercise their academic muscles beyond the classroom. Parents should provide an appropriate space for completing homework, free of distractions.

Grading Scale

| Percentage | Grade Points* | Letter Grade |
|------------|---------------|--------------|
| 97-100 | 4.3/5.3 | A+ |
| 94-96 | 4.0/5.0 | A |
| 90-93 | 3.7/4.7 | A- |
| 87-89 | 3.3/4.3 | B+ |
| 84-86 | 3.0/4.0 | B |
| 80-83 | 2.7/3.7 | B- |
| 77-79 | 2.3/3.3 | C+ |
| 74-76 | 2.0/3.0 | C |
| 70-73 | 1.7/2.7 | C- |
| 67-69 | 1.3/2.3 | D+ |
| 64-66 | 1.0/2.0 | D |
| 60-63 | 0.7/1.7 | D- |
| 59-Below | 0.0 | F |

* AP and college courses are graded on a 5-point scale.

Middle School COURSE OF STUDY



Middle School at Maui Prep is an exciting time. Students rotate classes for the first time, allowing them to develop time management and organization skills. In addition, students may select one elective each semester, allowing them to explore their interests.

6th Grade

English 6
Math 6
Science 6
Geography
Physical Education and Health
Introduction to Technology (Quarter 1 only)
Elective (Quarters 2-4)

7th Grade

English 7
Pre-algebra
Science 7
Hawaiian and American History
Physical Education and Health
Elective

8th Grade

English 8
Intro to Algebra or Algebra 1
Science 8
Ancient Civilizations
Physical Education and Health
Elective

Electives

Middle School Technology
Studio Art
Performing Arts
Engineering

Middle School Course Descriptions

English

English 6 is a focused study of literature, composition, and public speaking. Through required and free-choice texts, students gain an appreciation for literature while developing critical reasoning and analysis techniques. Students gain confidence as they present their analyses to classmates and master the planning, revising and peer-editing steps in writing.

English 7 is a synergy of reading, writing, speaking and listening, and language. Students cite textual evidence to determine a text's main ideas, the author's point of view, and organization of the text. With their textual evidence, they develop clear writing with appropriate organization and style for argumentative, informative, narrative, and research essays, and use technology to produce and publish their writing and to cite sources. The incorporation of speaking and listening skills teaches seventh-graders to formulate insightful questions for group discussion and to express their own views in front of a group while using relevant descriptions, facts, and details to support an opinion.

English 8 is a continued effort to develop students able to read and write confidently in all subject areas. Appropriate literature provides textual evidence to determine the main idea of a text and analyze the text. Using context clues, students will determine the meanings of words, or deduce figurative or connotative meanings. They will also learn to compare two different types of texts and discuss how those differences impact the meaning of the texts. The students will learn to use texts they have read in order to support their opinions and arguments in a logical way.

Students will become adept at writing argumentative, informative, narrative, and research essays with style and function appropriate to their topic, and then revise and improve their writing using guidance from peers. Skills in research and analysis are developed as students use valid and varied sources to support hypotheses. The proper use of citations and paraphrasing will be emphasized.

History/Social Studies

Geography 6 course introduces students to the physical and human geography of the world. Beginning with a spatial perspective, students explore different ways in which the earth has been represented. They investigate patterns of natural and human characteristics and explore how humans have used, adapted, or modified their

environment and the consequences. Students learn how culture both influences and affects people throughout the world in similar yet distinct ways. Hawaiian and American History

Hawaiian and American Histories 7 introduces the history of the Hawaiian islands as it evolves from settlements to kingdom to the 50th state. The history of the United States in the post-Columbian era is intertwined into the narrative as well.

Ancient Civilizations 8 introduces the ways in which early human civilizations worked together, used natural resources, developed technology and belief systems, and interacted with neighboring cultures.

Mathematics

Math 6 stresses fluency and accuracy of computation using whole numbers, decimals, fractions and integers. Problem-solving activities require computation in the areas of ratios, percents, proportions, area measurement, probability and data analysis. Scholars cover geometry and measures of central tendency as well.

Pre-Algebra covers the basic operations on real numbers. Computation of, conversions between and estimation of whole numbers, integers, rational numbers and irrational numbers are major themes in this course. Problem-solving using the above sets of numbers and operations will be addressed in the topics of ratios, percent, area, volume, measurement, probability, estimation, and data analysis.

Introduction to Algebra fortifies operations on real numbers. Scholars gain confidence in solving single-variable equations and introduced to linear equations and functions.

Algebra 1 introduces students to variables, algebraic expressions, equations, functions, inequalities, linear and quadratic equations and their multiple representations. Scholars develop the ability to explore and solve real-world application problems, demonstrate the appropriate use of graphing calculators, and communicate mathematical ideas clearly.

Science

Science 6 explores general introductory science topics including: matter, energy, Earth's Systems, weather, geology, and living things. Students will practice their critical

Middle School Course Descriptions (cont'd)

thinking, analysis, and connection making skills throughout this course. In order to fully grasp concepts, students will learn content through a mix of lecture, activities, and hands-on labs.

Science 7 focuses on our living planet. Students will cover topics including: cells, human systems, reproduction and growth, ecosystems, natural resources, human impacts on the environment, waves and electromagnetic radiation, and electricity and magnetism. Students will practice their critical thinking, analysis, and connection making skills throughout this course. In order to fully grasp concepts, students will learn content through a mix of lecture, activities, and hands-on labs.

Science 8 explores physical science. Topics include atoms, chemical reactions, genes and heredity, motion, the history of Earth, climate, and the solar system. Throughout this course, students will practice their critical thinking, analysis, and connection making skills through a mixture of lecture and hands-on activities.

Intro to Technology

Technology Tools (Q1 for 6th grade) introduces software and web-based tools including: the Google Suite (Docs, Sheets, Slides, Site), Canva (graphic design), BandLab (music), and tech skills across multiple platforms such as iOS, Windows, Linux, and ChromeOS.

Electives

In **Middle School Technology**, students apply design principles and learn technology tools that they can apply to other classes as well as use as a springboard to further exploration in design, coding, 3D modeling, and robotics. Each quarter features a different directed focus.

Q1: Technology Tools. Required for 6th grade.

Q2: LEGO Robotics allows students to build and code with the option to compete as a club later in the school year

Q3: Web-Based Design Tools expands students' technology repertoire to include architecture (Sweet Home 3D), 3D modeling (TinkerCAD, Monster Mash), Google Maps, and basic video editing (Invideo).

Q4: Game Design allows students to develop Choose-your-own-story (Metaverse Studio), Animation and simple games (Wick Editor), and 2D Game Design (GDevelop).

Drama is a quarter-long elective designed to guide students to experiment and develop new solutions in a process that starts with a concept and ends with a two-night public performance. As students prepare for their stage production, they gain skills in being on task and attentive to detail, sensitive to multiple points of view and learning to work together using negotiation, compromise and respect to achieve a mutual goal.

Students in the quarter elective **Music** learn or improve musical skills through playing an instrument and/or singing. Instruction includes topics of vocal technique, basic note and rhythm reading, beginning music theory and history, vocal score reading, ear training, vocal harmonization, instrument training, performance practices.

Fine Art is quarter-long exploratory class is designed to help improve students' basic art skills; drawing, painting, collage and design artwork using a variety of media and techniques. The course aims to develop students' creativity, self-expression, and ability to use the Elements of Art and Principles of Design. The elective explores a variety of topics each quarter and serves as a middle school elective.

Middle School Engineering is a quarter-long elective. In Engineering class, students learn basic coding and electrical engineering, complete assigned design challenges, and work on individual and group design-build projects. The goal is that students will be able to create and code circuits, solve problems, and think creatively about design. Students may complete individual projects that they bring home or work with school provided materials. This course is an opportunity for students to engage in active learning and problem solving with real-world design issues.





The Maui Prep program of study is a structured learning environment from the Preschool, Lower (Grades K–5), Middle (Grades 6–8), to the Upper School (Grades 9–12). Along with the core curriculum of English, Social Studies/History, Math, Science, and Health/Physical Education, students are exposed to Visual and Performing Arts, Technology, and other enrichment opportunities.

The approach in each core course is to encourage the highest possible degree of student involvement. A student who carefully completes assignments in each subject makes the greatest progress towards the achievement of educational goals. Therefore, all students are expected to complete their assignments to the best of their ability and to seek help from their teachers as needed, while maintaining the highest degree of academic integrity.

Maui Prep Graduation Requirements

| Courses | Credits Required |
|------------------------------------|------------------|
| English | 4 |
| History | 3 |
| World Language | 3 |
| Mathematics | 3 |
| Science | 3 |
| Physical Education* | 1 |
| Visual/Performing Arts** | 1 |
| Technology | 0.5 |
| Health and Life Skills | 0.5 |
| College and Career Explorations | 0.5 |
| Junior Seminar | 0.5 |
| Senior Seminar | 0.5 |
| Electives/Other Additional Credits | 3.5 |
| Total Credits | 24 |

* In lieu of physical education classes, students receive credit by participating in at least one MIL sport each year

**Students can request to waive 0.5 credit of art for a course of interest with approval from College Counselor (note: This will not meet UC schools admission requirements)



| Subject (Credits required for graduation) | 9th grade | 10th grade | 11th/12th grade A Year | 11th/12th grade B Year |
|---|---|--|--|---|
| English (4) | Foundations of World Literature | Modern World Literature and Composition | <ul style="list-style-type: none"> • AP Language and Composition • AP Literature and Composition • American Literature | <ul style="list-style-type: none"> • AP Language and Composition • AP Literature and Composition • Contemporary Literature |
| Humanities (3) | Foundations of World History | Modern World History and Culture | <ul style="list-style-type: none"> • AP US History • US Civics (F) • US History (S) | <ul style="list-style-type: none"> • AP Human Geography • Global Issues (F) • Modern Asian Perspectives (F) • Modern Hawaiian History (S) • Latin American Studies (S) |
| Math (3) | <ul style="list-style-type: none"> • Algebra 1 • Geometry • Algebra 2 | <ul style="list-style-type: none"> • Geometry • Algebra 2 • Precalculus | <ul style="list-style-type: none"> • Algebra 2 • Precalculus • AP Calculus AB | <ul style="list-style-type: none"> • Algebra 2 • Precalculus • AP Calculus AB |
| Science (3) | Biology | Chemistry | <ul style="list-style-type: none"> • AP Biology • AP Chemistry • Physics • Environmental Science (F) • Marine Science (S) | <ul style="list-style-type: none"> • AP Biology • AP Chemistry • Physics • Coral Reef Ecology (F) • Island Ecology (S) |
| World Language (3) | Spanish I-IV (Other languages available online) | | | |
| Visual and Performing Arts (1) | <ul style="list-style-type: none"> • Art Foundations • Advanced Studio Art • Music • Theater • AP Studio Art 2 (for seniors who successfully complete Advanced Studio Art) | | | |
| Technology (0.5) | <ul style="list-style-type: none"> • Computer Science • Engineering | | | |
| Required Courses (2) | Health (S) | College and Career Explorations (F) | Junior Seminar and Research Writing Senior Seminar and Research Writing | Junior Seminar and Research Writing Senior Seminar and Research Writing |
| Electives (3.5) | Electives vary each semester based on student interest and faculty availability. Maui Prep is a member school of the Constellations Learning; students may earn academic credit by successfully completing Constellations Learning courses. | | | |

(F) or (S) indicate a one semester course offered during (F)all or (S)pring semester

The PE requirement is satisfied by successful participation in 1 or more varsity sports each year (0.25 credits per year)

Upper School Course Descriptions

English

Foundations of World Literature focuses on writing, reading, speaking, and listening in addition to a year-long vocabulary study of Greek and Latin prefixes, roots, and suffixes. Students will read seminal texts from the genres of narrative, nonfiction, novel, poetry, drama, and short story. The course integrates analytical, informative, reflective, narrative, and creative writing. Students will learn how to participate in shared inquiry discussions by supporting their thinking with textual evidence from their readings.

Modern World Language and Composition focuses on global issues in addition to the historical and geographical contexts of literature and literary nonfiction. Texts studied will come from a variety of countries and cultures. The study of grammar, composition, literary devices, and vocabulary will be included. Students will also receive study skills and test-taking strategies. This course will include a focus on argumentative, expository, and narrative writing, as has been the case in past English courses. The research process will continue this year, and a research paper will be required. Opportunities for rich discussions and conversations will be provided regularly. Speaking and presentation skills will be enriched.

American Literature (alternating years) is an in-depth study of classic and contemporary American literature focusing on cultural issues and historical context. There will be an extensive exploration of novels, plays, short stories, poetry, and literary non-fiction. The study of grammar, composition, literary devices, and vocabulary taught during previous English classes will be reviewed and strengthened. Students will prepare for college classes by grooming their close-reading and long-form writing skills and solidifying their confidence for speaking and presenting. There will also be opportunities for creative writing and artistic expression as tools for deepening contextual understanding and literary analysis.

Contemporary Literature (alternating years) students will read important works of literature written since World War II. They will be exposed to great writing, so that they can learn to recognize it, and will write their own essays about the readings with the goal of improving their own writing. Students will read several novels, short stories, memoirs, plays, and poems, the last two being read aloud in class the way plays and poems are meant to be experienced. Literary selections are based on widespread acknowledgment of greatness and reader appreciation, rather than any particular point of view, as well as relevance to contemporary life.

AP English Language & Composition (alternating years) cultivates the reading and writing skills that students need for college success and for intellectually responsible civic engagement. The course guides students in becoming curious, critical, and responsive readers of diverse texts and becoming flexible, reflective writers of texts addressed to diverse audiences for diverse purposes. The reading and writing students do in the course should deepen and expand their understanding of how written language functions rhetorically: to communicate writers' intentions and elicit readers' responses in particular situations.

AP English Literature & Composition (alternating years) is an introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works.

Humanities

Foundations of World History provides an overview of the human experience for the last two millennia. As the curriculum proceeds chronologically, the students will investigate themes illuminated in historic episodes. Students will analyze events using the Four Cs of Historical Thinking (Comparison, Contextualization, Causation, Continuity/Change over time), and the COMPASS model (Nature, Society, Economy, Well-being) provide a lens to study how humans have used the earth as a resource for human development.

Modern World History and Culture provides students with the opportunity to explore critical issues, individuals and turning points in the histories of the modern world. Students will analyze the extent to which ideologies, societies, and events developed and shaped both our history and contemporary issues. Using an inquiry framework, students will develop questions, read and think like a historian, evaluate sources, and communicate ideas. Students will be challenged to think critically and to make thoughtful connections as they draw on a variety of resources to understand the human experience. By the end of the course students will be able to make compelling claims, supported by historical evidence.

The **AP United States History** (alternating years) course focuses on developing students' understanding of American history in nine historical periods from 1491 to the present. Scholars investigate the content of U.S. history for significant events, individuals, developments, and processes by analyzing primary and secondary sources,

Upper School Course Descriptions (cont'd)

making historical comparisons, using chronological reasoning, and argumentation. AP course enrollment requires pre-course assignments that are to be completed prior to the first day of school.

AP Human Geography (alternating years) introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

Global Issues (alternating years) helps students to be participatory citizens in our democracy through Project-Based Learning (PBL), experiential learning and critically thinking about how society is affected by the decisions we make.

This course will provide opportunities to improve skills, learn a wealth of content knowledge and help create an analytical thinker. To expand knowledge and skills, students will be expected to learn relevant vocabulary; understand relationships between various current and historical events; identify trends; identify different government and economic systems; compare and contrast information from various sources; conduct research, and write essays.

Latin American Studies is a seminar style course that examines the history, culture, political ideologies, economic structures and complex relationships that exist throughout Latin America. The course will include class lectures, discussions, debates, group projects and independent research. Students will be required to participate in discussions and debates revolving around the issues examined and to seek solutions to troublesome issues. Students will also be required to write several medium length research papers and will need to show superb organizational skills for a semester long project.

Modern Asian Perspectives deals with the recent history of Asia, from pre-World War II to the present. The course will examine a variety of contemporary social and ethical issues affecting Asia. Topics range from ongoing issues such as nuclear proliferation in Iran and North Korea, to tension in Pakistan and India, to human rights in Asia. Students will be required to participate in discussions and debates revolving around the issues examined and to seek solutions to troublesome issues. Students will also be required to write several medium length research papers and will need to show superb organizational skills for a semester long project.

United States Civics (alternating years) is a one-semester course designed to help students understand what it

means to be civically minded. The course equips you with the tools needed to exercise your rights and live up to your responsibilities as an American citizen. The central document of this course is the United States Constitution. Students investigate the United States in its current iteration alongside the intent of our founding ideals and documents as a democracy and a republic. US Civics also investigates the role that bias and positionality play in the modern media landscape. This upper class course is designed using a project-based inquiry model and develops a variety of skills including, reading, writing, speaking, listening and presenting.

United States History: The 20th Century (alternating years) is a semester-long history course is a thematic and sequential investigation of the events, interactions, relationships and conflicts that define the Modern American perspective. This upper class course is designed using a project-based inquiry model and develops a variety of skills including, reading, writing, speaking, listening and presenting.

Mathematics

Algebra 1 introduces students to variables, algebraic expressions, equations, functions, inequalities, and their multiple representations. Scholars develop the ability to explore and solve real-world application problems, demonstrate the appropriate use of graphing calculators, and communicate mathematical ideas clearly.

Geometry, from the Greek for "measure the Earth," is the branch of mathematics mainly concerned with two and three-dimensional figures and their properties. Scholars will use algebra, inductive and deductive reasoning, constructions, measurement, logic, proofs, probability, and coordinate geometry to explore these properties. Algebra I topics are reviewed when appropriate so that skills do not atrophy on the way to Algebra II.

Algebra 2 builds on algebraic and geometric concepts. It develops advanced algebra skills such as systems of equations, advanced polynomials, imaginary and complex numbers, quadratics, and concepts and includes the study of trigonometric functions. It also introduces matrices and their properties. The content of this course are important for students' success on both the ACT and college mathematics entrance exams.

Trigonometry and Precalculus covers topics of trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors

Upper School Course Descriptions (cont'd)

and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers. The pre-calculus portion combines reviews of algebra, geometry, and functions into a preparatory course for calculus, including linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections.

AP Calculus is the standard math course for college freshmen; this class is therefore an Advanced Placement course, with curriculum and exam administration defined by the College Board company. Calculus was invented by Isaac Newton (and coinvented independently by Gottfried Wilhelm Leibniz) in order to solve physics problems. Therefore, the two main concepts in calculus (derivatives and integrals) correspond well to the two main sections of physics (mechanics and electromagnetism). The three "big ideas" in this course are change, limits, and analysis of functions.

Required Courses

A graduation requirement, **Health and Life Skills** consists of two strands: sex education and life skills. The Health strand is modeled on Planned Parenthood curriculum (namely that sexuality education is based on science and addresses the culture that our young people are living in.) The Life Skills strand addresses basic skills for young adults including: applying for a job, participating in mock interviews, effectively writing resumes and cover-letters. In addition, financial topics such as budgeting, stocks, real estate, retirement planning, and life goals are covered. This course is a valuable part of a young person's education and accurate information is vital to responsible decision-making.

Successful completion of **College and Career Explorations** is a Maui Prep graduation requirement. This course is designed to prepare students to pursue post-secondary education. Students complete interest inventories, research colleges and universities, prepare for the PSAT/SAT, explore careers and majors based on individual interests, search for scholarships, and prepare to live independently from parents. Students in this class will take the October NMSQT PSAT. At the conclusion of the course, students will present a final project mapping out their plan for applying and entering college.

Junior Seminar and Research Writing is a year-long course (0.5 credit) broken into two parts and taken throughout the junior year. The first semester students

formulate a personal inquiry or passion project. The project empowers students to pursue an area of interest beyond the curriculum and lays the foundation for the senior project. Projects may include a research paper, literature review, extra passion course, research paper, internship, etc. In the second semester, students focus their work on college counseling and refining their personal college and career plan. This includes standardized test prep (SAT/ACT), refining college lists, workshopping student essays, and requesting letters of recommendation.

Senior Seminar and Research Writing is a year-long course broken into two parts. The first semester is focused on college counselling, the completion of the university application process and workshopping student essays. The second semester is for students to complete their senior project. The Maui Preparatory Academy Senior Project has three components: an academic research paper or literature review, an internship, and a culminating longform presentation to their school community based on a personal inquiry project of their choosing. This culminating assessment and passion project synthesizes many of the skills that students have learned throughout their academic journey at Maui Preparatory Academy.

Science

Biology is the study of living organisms. beginning with study of the cell, the most basic component of all living things. Students will learn about cell structure, anatomy, taxonomy, genetics, human anatomy, sexual and asexual reproduction, plants, animals, and more.

Chemistry presents a broad chemistry program suitable for college-bound students. Topics include atoms and molecules, elements and compounds, the periodic table, bonding, chemical reactions and equations, stoichiometry, states of matter, solutions, acids and bases, pH, energy transfer, and reaction rates. Math computation skills are honed as well.

Physics is a study of the traditional subject matter of classical physics: motion, energy, heat, sound, wave motion, optics, electricity and magnetism. The emphasis in this course is on the mathematical and theoretical development of physical principles. Problem-solving and critical thinking are essential parts of this course. The principles and concepts are studied using algebraic, geometric, and trigonometric methods of analysis as well as laboratory experiments and demonstrations.

Upper School Course Descriptions (cont'd)

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions. AP course enrollment requires pre-course assignments that are to be completed prior to the first day of school.

AP Chemistry is an introductory college-level chemistry course. Topics include atomic and molecular structure and properties, intermolecular forces, chemical reactions, kinetics (how fast reactions happen), thermodynamics, equilibrium, and acid-base chemistry. Live demonstrations include the violent reaction between certain elements and water, the spectacular combustion of a Gummi Bear, and the Halloween explosion of a pumpkin.

Students will perform at least 16 experiments during the course and will learn why and how to keep a professional-style lab notebook, and how to manipulate data to proper precision. Each semester, students will read a chemistry-related memoir, to emphasize the relevance of this vital scientific field to daily experience and to help students appreciate how beautiful the world is at the molecular level.

Prior completion of Algebra 2 is preferred. AP course enrollment requires pre-course assignments that are to be completed before the first day of school.

Coral Reef Ecology (alternating years) is a one semester-long study of relationships between living organisms found on coral reefs and their interactions with the natural and human environment. Topics include: The reef structure, types of reefs, different environments or zones within the reef, and factors controlling the development of these aquatic ecosystems; How different species of sea creatures on the reef coexist, compete, and work together to maintain healthy aquatic ecosystems; and the importance of coral reefs to ocean health.

Environmental Science (alternating years) surveys key topic areas including the application of scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and marine science. Topics explored during the one semester course also include the management of natural resources and analysis of private and governmental decisions involving the environment.

Island Ecology (alternating years) is a semester-based (0.5 credit) course intended to explore the unique place in which we live. The Hawaiian Archipelago is the most isolated island chain in the world and provides scientists a unique, natural laboratory in which to study. Island

formation, migration of terrestrial and marine-based flora and fauna to Hawaii, the evolution of organisms within Hawaii, endemic vs introduced species, Hawaii's many biomes, and the impact of humans on the islands will all serve as major points of discussion and learning within this place-based course.

Marine Science (alternating years) is a semester-based (0.5 credit) course will explain how oceans operate and affect life on land. The first half of the course will focus on oceanography; we will learn about plate tectonics, water chemistry, waves, tides, and currents - all of the chemical and physical features of the oceans that in turn affect the biological features of the oceans.

The second half will focus on the various forms of life found in oceans from the microbial to the megafauna. We will learn about various kinds of marine ecosystems, and explore our environmental impacts on the oceans. An ongoing focus throughout the year will be the impacts of climate change on the oceans. Case studies and current marine and estuarine events will be discussed.

World Language

Spanish I is a general introduction to the Spanish language, including pronunciation, functional vocabulary and basic grammatical structures. Students will study the most elementary concepts of grammar, vocabulary, dialogue, and culture, focusing on activities and routines used in daily home and school life.

Spanish II furthers the study of grammar, vocabulary, and cultures of Spanish-speaking countries with emphasis on pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Students improve listening, speaking, reading and writing skills and develop reading comprehension skills through literature.

Spanish III students will become more proficient in all modalities of the language – listening, speaking, reading, and writing – with a heavy emphasis on grammatical structures and verb tenses. Students will be able to talk about non-real and future situations and will be able to speak, read, and write, using the subjunctive mood to indicate implied commands, doubt, emotions, impersonal expressions, and negation. Students will deepen their understanding of the possessive pronouns, *por* v. *para*, definite and indefinite articles, multiple adjectives, adverbs, “if” clauses, voice, relative pronouns, and expressions of time.

Upper School Course Descriptions (cont'd)

Spanish IV is designed for students wishing to refine and enhance the language skills and cultural knowledge acquired in the prior years of study. While it is expected that students have been introduced to many of the main concepts of Spanish grammar, we will continue to review and practice these concepts in the context of conversation, reading, and writing. New concepts introduced are the perfect tenses, and the subjunctive and imperfect subjunctive moods. Students are encouraged to improve their listening and reading skills, as well as their written and oral expression.

Arts & Technology

Art Foundations is designed to provide a foundation in art education and prepare for advanced art courses. Emphasis is placed on understanding the Elements of Art and Principles of Design as a basis for composition. Students will explore a variety of artists, art processes and materials such as drawing, painting, printmaking and two & three-dimensional design. Student artwork will reflect aesthetics & cultural and historical contexts. Students will develop technical and creative problem-solving skills while gaining confidence as an artist.

Advanced Studio Art students will focus on portfolio development as they continue to develop skills in producing high quality works of art. Emphasis is placed on creating more complex visual statements. A wide range of materials and processes will be further explored, and students will have the opportunity to focus on a chosen subject or medium. The course is intended for advanced students creating a portfolio, but not taking the AP exam.

AP 2D Design provides an opportunity for the school's most talented and invested visual art students to enroll in a college-level course that enables them to spend a full year developing their higher level artistic talents through a concentration portfolio. The course requires students to invest themselves in their own academic growth through the mastery of media and design skills. Students are recommended to the course through outstanding achievement in the Studio Art courses.

Digital Media and Publishing students will learn about the basics of photography, digital design, editing, desktop publishing, and other related skills in the process of creating the school's yearbook. The course is intended to engage student learning in the field of digital media with hands-on projects and "real world" activities. The course

builds upon the development of a specific set of skills that would be required in the field of Digital Media. Most importantly, students must learn the skills of collaboration, communication, time management, and working under pressure in order to produce projects that can be showcased and published. This is a class that requires students to be self-motivated and independent workers, skills that will benefit them in all aspects of life.

Students in **Music** learn or improve musical skills through playing an instrument and/or singing. Instruction includes topics of vocal technique, basic note and rhythm reading, beginning music theory and history, vocal score reading, ear training, vocal harmonization, instrument training, performance practices.

Students in one semester **Computer Science** are self-directed and choose a real-world problem or challenge to tackle. They select appropriate technology tools and tutorials, and work to develop their skills in areas ranging from coding and robotics to architecture, computer graphics, digital photography, video production, and any other STEM area.

Through prototype development, they illustrate their progress and ultimately connect their work to careers. They end up working toward a certificate, a contest, or to create a technology-driven product to serve the community.

Engineering students learn basic coding and electrical engineering, complete assigned design challenges, and work on individual and group design-build projects. The goal is that students will be able to create and code circuits, solve problems, and think creatively about design. Students may complete individual projects that they bring home or work with school provided materials. This course is an opportunity for students to engage in active learning and problem solving with real-world design issues.

Theater is a semester-long, activity-oriented course designed to introduce students to theater arts as they study basic principals of acting, study character analysis, explore the use of objectives, obstacle, and choices, learn basic stage and rehearsal terms, and learn about theater etiquette and the audition process. The course culminates in a live stage performance.

Virtual Courses

Online courses are meant to supplement the program of studies offered by Maui Prep. Students in grades 9-12 may elect to take up to three courses per academic year depending on availability. Students may not take an online

Upper School Course Descriptions (cont'd)

course if it is offered as part of the Maui Prep curriculum. Students interested in enrolling in online courses must get prior approval from the administration. Approval forms are available from the administration.

College Courses

In addition to college credit, students can receive

high school credit for the completion of pre-approved college courses. Maui Prep will issue a 1 credit for each semester college course. College courses cannot be taken in place of Maui Prep courses taught on campus. Students must receive permission prior to registering for the course and must submit a college course approval form to the administration. The weighted GPA scale will be used for all pre-approved college courses.

