



HUALALAI ACADEMY

HIGH SCHOOL



2009-2010 COURSE CATALOG

Hualalai Academy is a K-12 college preparatory school that empowers students through an integrated curriculum and experiential learning to develop their academic, artistic, social and physical skills. We provide a safe, healthy and nurturing environment that encourages exploration, community involvement and lifelong learning.

BRIEF HISTORY

Established in 1995-96, Hualalai Academy is a non-sectarian private K-12th grade school serving 200 students. The student body reflects a wide range of ethnic and cultural backgrounds, mirroring the large community of greater Kailua-Kona, Hawaii. In the 2002-2003 school year, a 9th grade class was opened at the school for five students, drawing from the 8th grade class and from other schools in the area. Each school year thereafter, another high school grade was added. Currently, a high school program of grades 9-12 is offered to 33 students. The High School is housed in four spacious well-lit classrooms in a separate area of the campus, with restroom and picnic facilities dedicated to students in grades 9-12.

ACADEMIC PROGRAM

High School students are taught in small seminar-style classes that engage them in interactive activities and technology enabling them to share their views and insights and learn from each other in a "college like" setting. College Preparatory Courses are offered in English, Math, Social Studies, Science, World Languages, the Arts, and PE. In addition, the school offers courses in digital film production, student government, and a wide range of independent study options and college and career counseling. Honors courses are available to highly motivated students in all grades.

SCHOOL WIDE LEARNING OBJECTIVES

The program is meant to emphasize all of the **Hualalai Academy Expected School Wide Learning Results:**

Think critically and problem solve

Recognize and produce quality work

Exhibit respect for self and others

Appreciate the Arts and the diversity of all cultures

Take responsibility for living a healthy lifestyle.

FACULTY AND ADMINISTRATION

The faculty consists of four full-time teachers who serve as class advisors and provide instruction in all of the CORE academic classes. Several part-time teachers – many who also teach in the Middle School Program – also teach some of the elective classes.

Kate Mulligan – Head of School: Kate has her B.A. in English from Dartmouth College, and her EdM from Harvard Graduate School of Education. She has been an Independent School teacher and administrator for over 20 years in Hawaii, California, Alaska and Nevada.

Georg Kissner – Athletic Director/Health: Georg received his B.A. and M.A. from the University of Hawaii and a Masters in Counseling Psychology from Chaminade University. He taught health education and physical education at Mid-Pacific Institute on Oahu for over 25 years, as well as coaching various sports.

John Kilkenny – Chemistry, Physics: John was born in Portland, Oregon and raised in California. He received his BA in History from Baylor University and completed a Master of Education degree at Portland State University. He is credentialed to teach Chemistry, Physics, Mathematics and Social Studies. John has taught high school math

and science for the past 17 years, including three years at Mont Kiara International School in Kuala Lumpur, Malaysia

Greg Macke – 9th-12th English/Japanese: Greg was born in Southeast Missouri and graduated from St. John's College in Santa Fe, New Mexico where he mastered an interdisciplinary curriculum based on the Great Books of Western Civilization. He moved to Hawaii from Karatsu, Japan where he ran an English School.

Eric Southon – 9th-12th Geometry, Algebra II, Pre-Calculus: Eric taught math for over twenty-five years for the San Ramon Valley Unified School District. He received his A.A. degree from Brigham Young University and his B.A. from S.F. State University and a California Life Credential in Education. He has had a home in Kona for years and is originally from Apia, Western Samoa and is married with three children.

Adrienne White 9th -12th History/Social Studies - Adrienne is originally from Oxford, Ohio. She holds a BA in Political Science and a MAT in Secondary Social Studies Education from Miami University. Adrienne has lived in Luxembourg and Australia. She loves to travel and spend time with her family in Ohio, Canada, Wisconsin and Hawaii.

Donna Goodale – Biology: Donna has a B.A in Experimental Psychology from the Univ. of Calif. at San Diego and a Masters of Science in Zoology form the Univ. of Rhode Island. She is an avid swimmer, SCUBA diver, outrigger canoe paddler and photographer.

Scott Sveiven – Video Production Elective: Scott received his B.A. in English & Psychology from California Lutheran University and then earned a CLAD teaching credential for 6-12 grades. He taught middle school in southern California.

Hadley Catalano – Yearbook, Fine Arts: Hadley graduated with a B.F.A. in Photojournalism from Emerson College in Boston and has been working as a photojournalist for island newspapers since arriving on the island shortly after graduation in 2004.

Holly Martin Baker – Theater: Holly was born in Knoxville, Tennessee and raised in Kokomo, Indiana. She studied theater at The American Academy of Dramatic Arts in New York City and then went on to appear in many television shows " in the 80's" in Los Angeles. She holds a BA from Drake University in Des Moines, Iowa where she double majored in Drama and Psychology, with a focus on NeuroScience.

Nastia Stenberg – Spanish: Nastia graduated with a BA in Sociology from the University of Nanterre in Paris, France. She has been teaching French and Spanish since 1993 on the mainland and the Hawai`i Island.

Sue Boyum – Performing Arts/Musical Theater: Since moving to Kona six years ago Sue has been very involved in the arts community. She started the award winning Performing Arts at Innovations Public Charter School where she introduced their FAME (Fine Arts Mentorship Experience) program, which most recently produced "The Music Man Jr" at the Aloha Theatre. In the community she works with the Kona Music Society co-directing the Youth Chorus as well as preparing West Hawaii vocal students for All State Honor Choir.

For more information about our teachers, please visit our website at www.hualalai.org

TYPICAL COURSE OF STUDY

Due to the small size of our school, students are combined in the two-year cycle of courses in both English and Social Studies. The chart below outlines the possible course of study for a student in each grade level based on the course offerings for the 2009-2010 school year.

	English	History	Math	Science	World Languages	Electives
9th Grade	American Literature OR English Lit w/Grammar and Composition	U.S. History: 20 th Century OR World Geography	Pre-Alg. Alg. 1 Geo.	Physics	Beginning or Advanced Spanish	P.E. Visual Arts Creative Writing Musical Theater Robotics Yearbook Video Production
10th Grade	American Literature OR English Lit w/Grammar and Composition	U.S. History: 20 th Century OR World Geography	Alg. 1 Geo. Alg. 2	Chemistry or Biology	Advanced Japanese Beginning or Advanced Spanish	P.E. Visual Arts Creative Writing Musical Theater Robotics Yearbook Video Production
11th Grade	British Literature OR Honors World Literature	American Government (Sem. 1) Economics (Sem. 2) OR World History	Alg. 2 Pre-Calculus Calculus Math Topics	Chemistry or Biology	Advanced Japanese Beginning or Advanced Spanish	Health P.E. Visual Arts Creative Writing Musical Theater Robotics Yearbook Video Production
12th Grade	British Literature OR Honors World Literature	American Government (Sem. 1) Economics (Sem. 2) OR World History)	Alg. 2 Pre-Calculus Calculus Math Topics	Chemistry* Biology Independent Study Physics	Advanced Japanese Beginning or Advanced Spanish	Health P.E. Visual Arts Creative Writing Musical Theater Robotics Yearbook Video Production

GRADUATION REQUIREMENTS

Beginning with the school year 2005-2006 a total of 24 credits are required for a student to graduate from Hualalai Academy's High School: English 4 credits; Math 3 credits; Science 3 credits; Social Studies 4 credits; World Languages 2 credits; Fine Arts 1 credit; PE & Health 3 credits; Electives 4 credits

Core Credits: 20

Elective Credits: 4

Total Credits: 24

GRADING SYSTEM: A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F, Incomplete

Note: As a college Preparatory School, all of our courses are considered Honors Level Courses

COURSE DESCRIPTIONS

2009-10

MATHEMATICS

In order to perform well in these courses, students will be expected to have, in addition to normal school supplies, the following.

- ❑ A graphing calculator, preferably a Texas Instrument model (TI84 Plus Silver Edition or TI84 Plus is recommended)
- ❑ Students enrolled in Geometry will need a ruler, compass, and protractor.
- ❑ A 2-inch binder is required in all math classes with dividers to separate homework, quizzes & tests, and project sections.
- ❑ A 100-page minimum Meade notebook is required to take daily class notes.

ALGEBRA 1

(9-10)

Prerequisite: 8th Grade teacher recommendation or passed 9th **Grade** placement math assessment test.

College prep course with emphasis on algebraic problem solving and applications. Course content includes properties of real numbers, graphing and solving linear equations and functions, writing and solving systems of linear equations and inequalities, exponents and exponential functions, quadratic equations, polynomials and factoring, rational equations and functions, introduction to geometry. SAT and ACT practice questions at end of each chapter.

Text: McDougal Littell, Algebra 1 (First Edition, 2001)

GEOMETRY

(9-10)

Prerequisite: "C" grade or better in Honors Algebra 1 or teacher recommendation.

College prep course emphasizing Euclidean methods of analysis and proof. Course content includes inductive and deductive reasoning, understanding point, line, plane, angles and their measures, conditional and bi-conditional statements, parallel and perpendicular lines, congruency, properties of triangles, coordinate and indirect proof, quadrilaterals, polygons, transformations, similarity, right triangles and trigonometry, geometric probability, properties of circles, areas and volumes of plane figures, areas and volumes of solids. SAT and ACT practice questions at end of each chapter.

Text: McDougal Littell, Geometry (First Edition, 2001)

INDEPENDENT STUDY

Independent study will be offered in Algebra 1, Geometry, and Algebra 2/Trigonometry, for students with special schedules, and/or who wish to improve their individual grades in the above courses of study. Other IS math courses may be offered with approval of math department and curriculum committee. These IS courses will be self-tutorial based and will only offer minimal teacher assistance. It is the responsibility of the student/parent to get help from all sources available to them, including private tutoring, as needed.

ALGEBRA 2 & TRIGONOMETRY (10-12)

Prerequisite: "C" grade or better in Geometry.

College prep course with comprehensive review of all algebraic properties and concepts. Course content includes analysis of the real number system, solving linear equations and inequalities, problem solving using algebraic models, solving absolute value equations, functions and their graphs, slope and rate of change, writing equations of lines, piecewise and absolute value functions, matrices and determinants, quadratic functions, powers, roots, and radicals, exponential and logarithmic functions, rational equations and functions, quadratic relations and conic sections, sequences and series, probability and statistics, trigonometric ratios, and functions, trigonometric graphs, identities, ad equations. SAT and ACT practice questions at end of each chapter.

Text: McDougal Littell, Algebra 2 (First Edition, 2001)

PRECALCULUS (11-12)

Prerequisite: "B" grade or better in Algebra 2/Trig.

College prep course designed for students with high level of interest in science, and engineering fields of study. Intensive treatment of relations, functions, and graphs, trigonometric functions, advanced functions and graphing, polar coordinates and complex numbers, conics, exponential and logarithmic functions, discrete mathematics, sequences and series, combinations and probability, statistics and data analysis, introduction to calculus, the slope of a curve, derivatives and anti-derivatives, area under a curve, the fundamental theorem of calculus. Emphasis is on developing and enhancing critical thinking skills and problem solving, mathematical connections to real-world applications. SAT and ACT practice questions available at the end of each chapter.

Text: Glencoe, Advanced Mathematical Concepts-Precalculus With Applications (First Edition, 2004)

CALCULUS (11-12)

Prerequisite: "A" grade in Precalculus, or teacher recommendation.

Advanced college prep course for highly motivated and highly skilled math student. Topics covered in this highly intensive college course will include:

- A. Differentiation of algebraic, trigonometric, exponential, and logarithmic functions.

B. Integration

1. Fundamental Theorem of Integral Calculus.
2. Techniques of integration.
3. Application of the definite integral.

Text: McGraw-Hill, Calculus for Business, Economics, and the Social and Life Sciences (Eighth Edition, 2004)

MATH TOPICS

(11-12)

Prerequisite: Passing grade or better in Alg 2/Trig, or teacher recommendation. College prep course designed for students who need a challenging math curriculum in a 4th year math course.

This is a year-long course made up of different levels of math content. Placement in a particular level depends on a student's motivation and preparation. The emphasis is to review; refresh and remediate all levels of ones math experience from elementary to higher level mathematics.

Text: Glencoe, Math Matters Bk1, 2, 3 (First Edition, 2006)

ENGLISH

AMERICAN LITERATURE/GRAMMAR AND COMPOSITION

(9-10)

American Literature surveys the unfolding of America's literary heritage from its Native American, Puritan, and African American roots into twentieth century forms. Students explore fiction, poetry, drama, and non-fiction. Students read and discuss all genres, not only recognizing those elements particular to each genre, but also assessing how the genres fit into the larger American literary tradition. Students participate in the "shared inquiry" method of literary analysis, which develops their literary interpretation skills. Seminar discussions promote clear communication and the use of textual support to answer interpretive questions. The goal of this course is to develop clear self-expression through writing, critical reading and writing skills, and the ability to interpret and analyze American literature. Students are challenged to generate and explore questions that rely on higher level thinking skills, such as analysis, evaluation and application to new situations.

INTRODUCTION TO ENGLISH LITERATURE/GRAMMAR AND COMPOSITION (9-10)

This is a literature-based class that develops the skills students need to interpret, analyze, discuss and write about literature. Students participate in the "shared inquiry" method of literary analysis, which develops their literary interpretation skills. Seminar discussions promote clear communication and the use of textual support to answer interpretive questions. The grammar and composition component of the class develops competence in fundamental grammar, rules of usage, and basic paragraph, and essay writing.

BRITISH LITERATURE/GRAMMAR AND COMPOSITION II

(11-12)

British Literature is a seminar-style course designed for juniors and seniors with advanced skill levels in reading and literary interpretation. Reading selections range from the early beginnings of the English language modern poetry and contemporary short stories. Students engage in "shared inquiry" method of literary analysis, with emphasis on purposeful reading, open discussion of ideas, clear communication, and effective argumentation. The writing program includes analytical and interpretive essays, autobiographical papers, literary journals, and creative writing, with intense work on revision skills.

HONORS WORLD LITERATURE

(11-12)

World Literature and Great Books is a seminar-style course designed for juniors and seniors with advanced skill levels in reading and literary interpretation. Reading selections range from ancient Greek tragedy to contemporary short stories. Students engage in "shared inquiry" method of literary analysis, with emphasis on purposeful reading, open discussion of ideas, clear communication, and effective argumentation. The writing program includes analytical and interpretive essays, autobiographical papers, literary journals, and creative writing, with intense work on revision skills.

HISTORY/SOCIAL STUDIES

AMERICAN GOVERNMENT

Semester 1 (11-12)

This course provides a survey of the organization of American government, which includes an overview of the historical significance and provisions of the Articles of Confederation and the Constitution; the Bill of Rights; Congress; the Supreme Court; the Presidency; political parties and interest groups. The objective of this course is to lay the framework for informed citizenship in a democratic society, including voting, participating in community activities and assuming the responsibilities of citizenship. Additionally, students will draw on their studies of American history and of other societies to compare different systems of government in the world today.

U.S. HISTORY: CONTINUITY AND CHANGE IN THE TWENTIETH CENTURY

Semester 1 (10-11)

Students study the major turning points in American history in the twentieth century. Following a review of the nation's early history, including the impact of the Enlightenment on U.S. democratic ideals, students proceed chronologically through U.S. History including: the rise of Industrialization, the emergence of the U.S. as a world power, the 1920's, the Great Depression, World War II, the post-World War II economic boom, The Cold War, the Civil Rights Movement and the 1960's.

WORLD GEOGRAPHY (9)

This year long course provides the content knowledge & skills necessary to understand the roles, responsibilities, and relationships of people & places throughout the world, both past and present. Additionally we will spend time studying our local geography, history and literature. The course will be centered on the Five Geography Themes codified by the Joint Committee on Geographic Education of the National Council for Geographic Education (NCGE) and the Association of American Geographers (AAG). The themes are: **Location, Place, Human/Environment Interaction, Movement and Regions.**

WORLD HISTORY (11, 12)

This course focuses on modern world from the conclusion of WWII to the present. Students will study important developments in the 20th & 21st centuries and discover the origins and contexts of issues facing the contemporary world. The course is designed to complement the readings assigned in the literature course offered in the same year.

PRINCIPLES OF ECONOMICS

Semester 2 (11-12)

This survey course is designed to introduce the students to the science of economics. Students will master fundamental economic concepts, apply the tools (graphs, statistics, equations) from other subject areas to the understanding of operations and institutions of economic systems. Studied in a historic context are the basic economic principles of micro- and macroeconomics, international economics, comparative economic systems, measurement, and methods.

SCIENCE

PHYSICS I

(9-10)

This course will be an introduction to the laws that govern the natural world. There will be units on:

- a) Mechanics, the science of motion and mechanical energy. This unit will look at various types of motion and include a study of Newton's laws of motion and the universal law of gravitation.
- b) Heat and temperature including an introduction to thermodynamics.
- c) Vibrations and waves, with a brief look at sound.
- d) Electricity and magnetism. This will include electrostatics, electric current, and magnetism.
- e) Light and Geometric optics. This unit will include the wave nature and the particle nature of light including an introduction to quantum physics.
- f) Atomic and nuclear physics.

INTRODUCTION TO CHEMISTRY

(10-11/Alternate Years)

Course Description: This course will be an introduction to chemistry. Units to be studied are:

- a) Measurement and uncertainty.
- b) Atomic structure and the periodic table.
- c) Chemical bonds, names, and chemical reactions.
- d) States of matter.
- e) Solutions.
- f) Types of reactions.
- g) Organic chemistry.

LAB BIOLOGY

(10-11/Alternate Years)

Biology is a course designed to help students to develop an understanding of fundamental life processes, relations between structure and function, and relations between organisms and their biological and physical environments. Topics for each semester are as follows:

SEMESTER 1 CURRICULUM – The Web of Life, Populations, Communities and Ecosystems, Matter and Energy in the Web of Life, The Cell, Continuity through reproduction, Continuity through Development, Heredity and Genetic Variation, Evolution: Patterns and Diversity, Ordering Life in the Biosphere, Prokaryotes and Viruses, Eukaryotes: Protists and Fungi, Eukaryotes: Plants, Eukaryotes: Animals

SEMESTER 2 CURRICULUM – The Human Animal: Food and Energy, Maintenance of Internal Environment, Coordination, the Flowering Plant: Form and Function, Maintenance and Function, Behavior, Selection, and Survival, Ecosystems of the Past, Biomes Around the World, Aquatic Ecosystems, Aquatic Ecosystems, Managing Human-Affected Ecosystems.

High School Electives – First Semester

Elective Block C Last Period Tues/Thursday

Note: These electives are .25 Credits Each Semester, with the exception of Study Hall, which is a non-credit class, and Musical Theater, which is a .5 Credit Each Semester (.25 in Fine Arts and .25 in PE) and must be taken concurrently with the Project Block Musical Theater Class.

FAD101 - Musical Theater – Ms. Boyum / Mrs. Baker

(Must be taken in conjunction with Wed. Musical Theater)

This class is a performance-based class in which students will learn how to confidently audition, present, and perform in front of others, while encouraging their peers to do the same. In our rehearsal process we'll work on singing, speaking and using the voice to express emotion while improving clarity, strength, range, pitch, and volume. We'll also work on choreography and memorization in preparation for a full-scale musical theatre production. In addition, each student will have experience with at least one aspect of various crews, choosing from props, design, construction, makeup, costume, lighting, sound, backstage, publicity and stage crews.

High School students will receive both a Fine Arts credit and PE credit for participation in this elective. (.50 Credits taken with Project Block Musical Theater).

FAV311 - Mixed Media Art – Ms. Catalano

This visual arts class will incorporate a range of artistic mediums, including, but not limited to, ink block printing, watercolor, drawing, acrylic paints, collage, photography, and sculpture. Students will be given the freedom to explore artistic self-expression and style while reviewing the theory and practice of the visual art masters and professionals. Students will also have the opportunity to engage in set design/construction for school plays. (.25 Credits – Arts)

FAV433 - Video Production – Mr. Sveiven

Video production is a creative outlet for your ideas, quips, stories and talents. This class is geared for beginners through advanced filmmakers. We will explore claymation, machinima, stop motion and shorts. Students will have a lot of freedom to create in this class, but everyone is expected to contribute to our statewide video contests. (.25 Credits – Arts)

PEH – High School PE – Mr. Southon

This will be a fitness and sports class which will meet two times each week for a quarter credit in PE for the Semester. It is recommended for those who *do not plan* to participate in at least one Season of a BIIF Sport, *do not* take Musical Theater, or *do not* have an Independent Sport planned for the year. If fewer than five students sign-up, this course will not be offered, and students will need to see Mr. Kissner to make a special arrangement for Independent PE. (.25 Credits – PE).

STY121 - Study Hall C – Instructors (Various)

Elective non-credit course designed for students requiring additional teacher support outside of the classroom. Focus will be to improve current class standing and/or to work on homework and other assigned class work. Each student will present a detailed plan of work during each study

hall session. This plan must detail what the student will accomplish during study hall time and must be signed off by student and teacher. No use of computers will be allowed unless research pertinent to accomplishing student study hall plan. In the absence of schoolwork, students may read teacher approved literature if they are "on track" with their normal school work. (*Non-Credit Course*)

Wednesday Arts & Science Project Class **1:10-2:35 Wednesday**

Note: These electives are .25 Credits Each Semester, with the exception of Musical Theater, which is a .5 Credit Each Semester and must be taken concurrently with the Elective Block "C" Musical Theater Class.

FAD101 - Musical Theater – Ms. Boyum / Mrs. Baker

(Must be taken in conjunction with Block C Musical Theater, not available to 6th grade first semester)

This class is a performance-based class in which students will learn how to confidently audition, present, and perform in front of others, while encouraging their peers to do the same. In our rehearsal process we'll work on singing, speaking and using the voice to express emotion while improving clarity, strength, range, pitch, and volume. We'll also work on choreography and memorization in preparation for a full-scale musical theatre production. In addition, each student will have experience with at least one aspect of various crews, choosing from props, design, construction, makeup, costume, lighting, sound, backstage, publicity and stage crews. (.50 Credits) High School students will receive both a Fine Arts credit and PE credit for participation in this elective.

PJC102 – Robotics – Mrs. Steger

Robotics is a semester-long, elective course that emphasizes the development of 21st century skills through project-based learning. Students, participating in teams, will build remote controlled, Vex robots that will be presented school-wide in an arena demonstration at the end of the semester. The objective of this course is to develop and enhance an appreciation for applied mechanics and engineering. (.25 Credits/Science)

PJC106 - Youth TV – Mr. Sveiven

Hualalai Academy News Reel and TV Show

Do you have an interest in reporting, acting or news casting? Are you a good writer? Are news stories exciting to you? This class will need a variety of student workers: on-camera talent, writers, directors, camera operators, video editors, set designers and sound technicians. We will plan, write and produce a bi-monthly school TV show. We will focus on special events, happenings and stories from around our community. (.25 Credits – Arts)

PJC101 - Year Book – Ms. Catalano

Designing the Hualalai Academy 2009-2010 yearbook. Starting with layout/design, and photography to arranging the cover image contest, interviewing students and teacher and taking polls for superlatives to actually creating the book on the computer yearbook program, students will engage in all aspects of the yearbook publication. (.25 Credits – Arts)

PJC104 – The Forest & You – Mrs. Goodale

Can you relate to a tree? In this class you will learn about the endangered Hawaiian Dry Land Forest, and help to replant a damaged forest. We will also germinate endangered plant seeds and use some of the seedlings to augment the landscaping of our campus. Students will keep journals, perform experiments, plant trees and shrubs, do occasional maintenance of the Mango Tree Trail, and create a Power Point presentation based on a class topic. (.25 Credits – Science)

AEL109 - Creative Writing – Mr. Macke

This class will introduce students to the process and craft of creative writing. We will read essays by different authors explaining their techniques and class time will be spent discussing the craft and going over assigned readings. We will also look at different genres, discuss dialogue, plot, character, and other rudimentary details of this particular creative process. Students will also spend a considerable amount of time writing, discussing their writing, and will produce their own work, which will be a part of their final grade. This class is open to 6th - 12th grades. There will be no essay writing. (.25 Credits – Arts)

